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Even if Salomon and Blume fall short of this unique challenge, they have by taking a first look across the Atlantic westward provided a framework for a major field of study based, in Blume's words, on the proposition that "the social structure of modern science is highly dependent upon the social, economic, and political organization of society, and extremely sensitive to changes in this environment."—A. Hunter Dupree, *History, Brown University*

Legends of the Earth: Their Geological Origins. Dorothy B. Vitaliano. 305 pp. Indiana University Press, 1973. \$12.50.

Geomythology is Dorothy Vitaliano's word for the study of the geological sources of certain kinds of myths and legends. She includes under this heading the origins of both etiological myths—that is, myths which seek to explain specific geological features or ac-

tions—and euhemeristic myths—mythological accounts which may represent actual historical occurrences. She also extends her definition to include possible geological causes of historical events. These distinctions are responsible for the very different character of the two parts of her book.

Its first and longest section is a collector's potpourri of etiological myths from all over the world. The chapter headings—Landform Lore, Earthquake Lore, Volcano Lore, and The Deluge—give an accurate summary of its scope. Unfortunately, despite much that is of interest, repeated recital of often similar myths followed by brief textbookish explanations of what "actually" happened quickly grows tedious. Most readers, moreover, whether geologists, students of folklore, or interested laymen, will resent the patronizing tone of Vitaliano's presentation of the geological "facts." Certainly they will grow tired, as I did, of being told that geological phenomena did not "really" result from the activities of gods, superhuman beings, or gigantic beasts. In these chapters the author all too obviously appears as a geologist with an interest in folklore. Thus she fails in her expressed hope that she "might help bridge the communications gap between the scientist and the nonscientist" (p. xi).

The second, and unfortunately shorter, part of the book is considerably better. It deals entirely with the Bronze Age eruption of Santorin and its possible connection with the sudden fall of Minoan Crete, the legend of Atlantis, and the Biblical record of the plagues of Egypt. Here Vitaliano is very much at home. She and her husband have made firsthand geological studies of Santorin and Crete, she has examined the archaeological evidence and has brought her talents as translator to bear upon the historical and mythological records. The result is an interesting analysis of a major geological event and its possible historical and legendary aftermath. Her speculations about what may have happened on Crete, in Egypt, and throughout the Mediterranean as a result of the eruption of Santorin differ in several important particulars from other speculations that have appeared during the last decade. They are clearly labeled as speculations, but they are carefully constructed to conform with the probable course of geological events and the possible course of historical events. Readers familiar with the literature on the Santorin eruption may not agree with all of Vitaliano's speculations, but they will surely find them interesting, and others will find the whole problem fascinating.—Joe D. Burchfield, *History, Northern Illinois University*

Index to Books Reviewed

Author	Title	Page
Ahmadjian, V., & M. Hale, eds.	<i>The Lichens</i>	732
Altschul, A. M., ed.	<i>New Protein Foods, Vol. 1A: Technology</i>	730
Appley, M. H., ed.	<i>Adaptation-Level Theory</i>	742
Athreya, K. B., & P. E. Ney	<i>Branching Processes</i>	744
Battan, Louis	<i>Weather</i>	730
Black, M. M., ed.	<i>Developments in Biomedical Engineering</i>	747
Blume, Stuart	<i>Toward a Political Sociology of Science</i>	749
Boardman, R., A. Cheetham, W. Oliver, Jr., eds.	<i>Animal Colonies</i>	737
Bonica, J. J., ed.	<i>Advances in Neurology, Vol. 4</i>	738
Bourne, G. H., ed.	<i>The Structure and Function of Muscle, Vol. 4</i>	736
Brechua, H.	<i>Superconducting Magnet Systems</i>	727
Briody, B. A., ed.	<i>Microbiology and Infectious Disease</i>	739
Brookfield, Harold, ed.	<i>The Pacific in Transition</i>	743
Brown, J. H., & J. F. Dickson, III, eds.	<i>Advances in Biomedical Engineering, Vol. 2</i>	747
Brown, Sanborn C., ed.	<i>Physics 50 Years Later</i>	721

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Battan, Louis	<i>Weather</i>	730
Black, M. M., ed.	<i>Developments in Biomedical Engineering</i>	747
Blume, Stuart	<i>Toward a Political Sociology of Science</i>	749
Boardman, R., A. Cheetham, W. Oliver, Jr., eds.	<i>Animal Colonies</i>	737
Bonica, J. J., ed.	<i>Advances in Neurology, Vol. 4</i>	738
Bourne, G. H., ed.	<i>The Structure and Function of Muscle, Vol. 4</i>	736
Brechua, H.	<i>Superconducting Magnet Systems</i>	727
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Brown, Sanborn C., ed.	<i>Physics 50 Years Later</i>	721

Author	Title	Page
Cushing, David	<i>The Detection of Fish</i>	746
Day, Peter	<i>Genetics of Host-Parasite Interaction</i>	740
Duda, R., & P. Hart	<i>Pattern Classification and Scene Analysis</i>	745
Duerr, W. A., ed.	<i>Timber! Problems, Prospects, Policies</i>	732
Dugan, P. R.	<i>Biochemical Ecology of Water Pollution</i>	741
Ekman, Paul, ed.	<i>Darwin and Facial Expression</i>	749
Ephremides, A., & J. B. Thomas, eds.	<i>Random Processes</i>	745
Erwin, Joseph, ed.	<i>Lipids and Biomembranes of Eukaryotic Microorganisms</i>	731
Fenner, F., et al.	<i>The Biology of Animal Viruses, 2nd ed.</i>	737
Fergusson, J. E.	<i>Stereochemistry and Bonding in Inorganic Chemistry</i>	727
Flores, Ivan	<i>Peripheral Devices</i>	745
Gear, C. W.	<i>Introduction to Computer Science</i>	746
Grell, Karl G.	<i>Protozoology</i>	734
Greub, W., S. Halperin, R. Vanstone	<i>Connections, Curvature, and Cohomology, Vol. 2</i>	744
Gribbin, J., & S. Plagemann	<i>The Jupiter Effect</i>	721
Hammond, Norman, ed.	<i>South Asian Archaeology</i>	742
Hatfield, W., & W. Parker	<i>Symmetry in Chemical Bonding and Structure</i>	727
Hatsopoulos, G., & E. Gyftopoulos	<i>Thermionic Energy Conversion, Vol. 1</i>	747
Holmes, R., & J. Ball	<i>The Pituitary Gland</i>	736
Holton, Pamela, ed.	<i>Pharmacology of Gastrointestinal Motility and Secretion, Vols. 1-2</i>	737
Jenkins, F. A., Jr., ed.	<i>Primate Locomotion</i>	742
Kazan, B., ed.	<i>Advances in Image Pickup and Display, Vol. 1</i>	746
Kitaigorodsky, A. I.	<i>Molecular Crystals and Molecules</i>	727
Kuttruff, Heinrich	<i>Room Acoustics</i>	727
Lamb, H. H.	<i>Climate: Present, Past and Future, Vol. 1</i>	728
Landau, R. L., ed.	<i>Regulating New Drugs</i>	736
Leive, Loretta, ed.	<i>Bacterial Membranes and Walls</i>	740
Lieberstein, H. M.	<i>Mathematical Physiology</i>	745
Lightfoot, E. N.	<i>Transport Phenomena and Living Systems</i>	740
Lindahl-Kiessling, K., & D. Osoba, eds.	<i>Lymphocyte Recognition and Effector Mechanisms</i>	734
Lindenbaum, S. J.	<i>Particle-Interaction Physics at High Energies</i>	724
Lindner, G., & K. Nyberg	<i>Environmental Engineering</i>	741
Lorenz, Konrad	<i>Civilized Man's Eight Deadly Sins</i>	740
McDowell, F., & A. Barbeau, eds.	<i>Advances in Neurology, Vol. 5</i>	739
Mangelsdorf, P. C.	<i>Corn: Its Origin, Evolution, and Improvement</i>	720
Milgram, S., & R. L. Shotland	<i>Television and Antisocial Behavior</i>	742
Miyashiro, Akiho	<i>Metamorphism and Metamorphic Belts</i>	728
Moav, Rom	<i>Agricultural Genetics</i>	731
Morrel, A. M., et al.	<i>Color Television and Picture Tubes</i>	746
Mostow, G. D.	<i>Strong Rigidity of Locally Symmetric Spaces</i>	744
Newman, J. S.	<i>Electrochemical Systems</i>	747
Ozisik, M. N.	<i>Radiative Transfer and Interactions with Conduction and Convection</i>	748
Petersen, M., J. Rigby, L. Hintze	<i>Historical Geology of North America</i>	730
Pierce, J. R.	<i>Almost All About Waves</i>	746
Poole, Robert W.	<i>An Introduction to Quantitative Ecology</i>	741
Prasad, K. N.	<i>Human Radiation Biology</i>	738
Radakov, D. V.	<i>Schooling in the Ecology of Fish</i>	732
Roberts, A. W., & D. Varberg	<i>Convex Functions</i>	744
Russell, Diane H., ed.	<i>Polyamines in Normal and Neoplastic Growth</i>	736
Salomon, Jean-Jacques	<i>Science and Politics</i>	749
Sarnat, H. B., & M. G. Netsky	<i>Evolution of the Nervous System</i>	735
Schur, Max	<i>Freud: Living and Dying</i>	748
Scott, M. R.	<i>Invariant Imbedding and Its Applications to Ordinary Differential Equations</i>	744
Sela, Michael, ed.	<i>The Antigens, Vol. 1</i>	739
Shilov, G. E.	<i>Elementary Real and Complex Analysis</i>	744
Slater, J. C.	<i>Quantum Theory of Molecules and Solids, Vol. 4</i>	725
Sleigh, Michael	<i>The Biology of Protozoa</i>	732
Sperling, O., A. De Vries, J. B. Wyngaarden, eds.	<i>Advances in Experimental Medicine and Biology, Vols. 41A & 41B: Purine Metabolism in Man</i>	734
Stahl, Barbara J.	<i>Vertebrate History: Problems in Evolution</i>	738
Stearns, L. W.	<i>Sea Urchin Development</i>	732
Stewart, T. D.	<i>The People of America</i>	743
Taylor, W., & N. Farnsworth, eds.	<i>The Vinca Alkaloids</i>	731
Thomas, Lewis	<i>The Lives of a Cell</i>	722
Valentine, J. W.	<i>Evolutionary Paleoecology of the Marine Biosphere</i>	728
Vandenbosch, R., & J. Huizenga	<i>Nuclear Fission</i>	724
Vitaliano, Dorothy B.	<i>Legends of the Earth: Their Geologic Origins</i>	750
Weisskopf, V. F.	<i>Physics in the Twentieth Century</i>	724
Wolfe, Stephen	<i>Biology of the Cell</i>	731
Zeffren, E., & P. Hall	<i>The Study of Enzyme Mechanisms</i>	734
Zeitzschel, Bernt, ed.	<i>The Biology of the Indian Ocean</i>	741

Books Received for Review

All books listed were published in 1974 unless otherwise indicated.

Physical Sciences

- Arnold, D. R., et al. *Photochemistry: An Introduction*. 283 pp. Academic Press. \$15.
- Barnoski, Michael K., ed. *Introduction to Integrated Optics*. 515 pp. Plenum Press. \$25.
- Beer, Arthur, ed. *Vistas in Astronomy*, Vol. 16. 337 pp. Pergamon Press. \$40.50.
- Boyer, Raymond F., ed. *Technological Aspects of the Mechanical Behavior of Polymers*. 107 pp. Wiley-Interscience. Paper, no price given.
- Bürger, H., et al. *Silicon Chemistry I*. 165 pp. Springer-Verlag. \$19.70.
- Burton, Milton, & John L. Magee. *Advances in Radiation Chemistry*, Vol. 4. 410 pp. Wiley-Interscience. \$31.50.
- Caianiello, Eduardo R., ed. *Renormalization and Invariance in Quantum Field Theory*. 404 pp. Plenum Press. \$28.
- Callaway, Joseph. *Quantum Theory of the Solid State*, Parts A & B. 824 pp. Academic Press. \$29.50 the set.
- Cerny, Joseph, ed. *Nuclear Spectroscopy and Reactions*, Part C. 590 pp. Academic Press. \$47.50.
- Connolly, T. F., & Donald T. Hawkins, eds. *Ferroelectrics Literature Index*. 705 pp. IFI/Plenum. \$50.
- Conway, B. E., & J. O'M. Bockris, eds. *Modern Aspects of Electrochemistry*, No. 9. 484 pp. Plenum Press. \$29.50.
- Denisov, E. T. *Liquid-Phase Reaction Rate Constants*. Trans. by R. K. Johnston. 771 pp. IFI/Plenum. \$50.
- Dunitz, J. D., et al., eds. *Structure and Bonding*, Vol. 18: *Large Molecules*. 216 pp. Springer-Verlag. \$27.90.
- Edwards, John B. *Combustion: The Formation and Emission of Trace Species*. 240 pp. Ann Arbor Science. \$22.50.
- Eland, J. H. D. *Photoelectron Spectroscopy: An Introduction to Ultraviolet Photoelectron Spectroscopy in the Gas Phase*. 239 pp. Halsted Press. \$18.50.
- Erő, J., & J. Szűcs, eds. *Nuclear Structure Study with Neutrons*. Proc. of the International Conf. on Nuclear Structure Study with Neutrons, Budapest, July-Aug. 1974. 514 pp. Plenum Press. \$27.50.
- Frigerio, A., & N. Castagnoli, Jr., eds. *Mass Spectrometry in Biochemistry and Medicine*. 389 pp. Raven Press. \$28.
- Gal-Or, Benjamin, ed. *Modern Developments in Thermodynamics: An Interdisciplinary Collective Treatise*. 458 pp. Halsted Press. \$24.50.
- Gasser, R. P. H., & W. G. Richards. *Entropy and Energy Levels*. 134 pp. Clarendon Press at Oxford University Press. \$10.
- Gasteiger, J., et al. *Stereochemistry II*. 129 pp. Springer-Verlag. \$23.80.
- Giddings, J. Calvin, & Roy A. Keller, eds. *Advances in Chromatography*, Vol. 10. 246 pp. Marcel Dekker. No price given.
- Gill, G. B., & M. R. Willis. *Pericyclic Reactions*. 240 pp. Halsted Press. \$9 paper.
- Gillespie, Daniel T. *A Quantum Mechanics Primer*. 137 pp. Halsted Press. \$5.95 paper.
- Gray, G. W., & P. A. Winsor, eds. *Liquid Crystals and Plastic Crystals*, Vol. 2: *Physico-Chemical Properties and Methods of Investigation*. 314 pp. Halsted Press. \$32.50.
- Haque, Rizwanul, & Francis J. Biros, eds. *Mass Spectrometry and NMR Spectroscopy in Pesticide Chemistry*. 348 pp. Plenum Press. \$19.50.
- Harvey, Dodd L., & Linda C. Ciccoritti. *U.S.-Soviet Cooperation in Space*. 408 pp. Washington, D.C.: Center for Advanced International Studies. Paper, no price given.
- Hayat, M. A., ed. *Principles and Techniques of Scanning Electron Microscopy: Biological Applications*. Vol. 1: 273 pp. \$22.50. Vol. 2: 171 pp. \$19.95. Van Nostrand Reinhold.
- Heck, Richard F. *Organotransition Metal Chemistry: A Mechanistic Approach*. 338 pp. Academic Press. \$27.
- Hering, Robert G., ed. *Thermophysics and Spacecraft Thermal Control*. 551 pp. M.I.T. Press. \$20.
- Johnson, Julian F., & Roger S. Porter, eds. *Liquid Crystals and Ordered Fluids*, Vol. 2. 783 pp. Plenum Press. \$39.50.
- Jolly, P. W., & G. Wilke. *The Organic Chemistry of Nickel*, Vol. 1: *Organonickel Complexes*. 517 pp. Academic Press. \$58.
- Kane, Philip F., & Graydon B. Larabee, eds. *Characterization of Solid Surfaces*. 670 pp. Plenum Press. \$32.50.
- Levine, R. D., & R. B. Bernstein. *Molecular Reaction Dynamics*. 250 pp. Oxford University Press. \$10.
- Lifshitz, E. M., & L. P. Pitaevskii. *Course of Theoretical Physics*, Vol. 4, Part 2: *Relativistic Quantum Theory*. 616 pp. Pergamon Press, 1973. \$12.50.
- Liteanu, C., & S. Gocan. *Gradient Liquid Chromatography*. 338 pp. Halsted Press. \$27.50.
- McCall, James L., & William M. Mueller, eds. *Metallographic Specimen Preparation: Optical and Electron Microscopy*, 358 pp. Plenum Press. \$26.
- Macrakis, Michael S., ed. *Energy: Demand, Conservation, and Institutional Problems*. 556 pp. M.I.T. Press. \$25.
- Masuda, Kohzoh, & Marvin Silver, eds. *Energy and Charge Transfer in Organic Semiconductors*. 200 pp. Plenum Press. \$18.50.
- Mintz, Stephan L., Laurence Mittag, Susan M. Widmayer, eds. *Fundamental Theories in Physics*. 248 pp. Plenum Press. \$22.50.
- Mislow, K., et al. *Stereochemistry I*. 156 pp. Springer-Verlag. \$19.70.
- Modell, Michael, & Robert C. Reid. *Thermodynamics and its Applications*. 553 pp. Prentice-Hall. \$18.95.
- Muller, O., & R. Roy. *The Major Ternary Structural Families*. 487 pp. Springer-Verlag. \$31.20.
- Myasoedov, B. F., et al. *Analytical Chemistry of Transplutonium Elements*. Trans. by N. Kaner. 404 pp. Halsted Press. \$30.
- Nielsen, Lawrence E. *Mechanical Properties of Polymers and Composites*. Vol. 1. 255 pp. Marcel Dekker. No price given.
- Nikitin, E. E. *Theory of Elementary Atomic and Molecular Processes in Gases*. Trans. by M. J. Kearsley. 472 pp. Clarendon Press of Oxford University Press. \$42.50.
- Nordmann, Joseph. *What Chemists Do: A Laboratory Manual*. 289 pp. Harper & Row. Paper, no price given.
- Ogibalov, P. M., et al., eds. *Structural Polymers: Testing Methods*. Vol. 1: 306 pp. 1973. Vol. 2: 306 pp. 1974. Halsted Press. \$55 the set.
- Pizey, J. S. *Synthetic Reagents*, Vol. 2: *N - Bromosuccinimide; Diazomethane; Manganese Dioxide; Raney Nickel*. 353 pp. Halsted Press. \$37.50.
- Richard, Claude, & Pierre Granger. *Chemically Induced Dynamic Nuclear and Electron Polarizations: CIDNP and CIDEP*. 122 pp. Springer-Verlag. \$23.80.
- Sandler, Stanley R., & Wolf Karo. *Polymer Syntheses*, Vol. 1. 572 pp. Academic Press. \$39.50.
- Sawyer, Donald T., & Julian L. Roberts, Jr. *Experimental Electrochemistry for Chemists*. 435 pp. Wiley-Interscience. \$18.50.
- Schieve, W. C., & J. S. Turner, eds. *Lectures in Statistical Physics*. 342 pp. Springer-Verlag. \$9.90 paper.
- Schmalzried, Hermann. *Solid State Reactions*. Trans. by A. D. Pelton. 214 pp. Academic Press. \$21.75.

- Schulz, M., & L. J. Lanzerotti. *Particle Diffusion in the Radiation Belts*. 215 pp. Springer-Verlag. \$32.
- Skobel'tsyn, D. V., ed. *Photomesic and Photonuclear Reactions and Investigation Methods with Synchrotrons*. Trans. by Joachim R. Büchner. 252 pp. Consultants Bureau/Plenum. \$37.50 paper.
- Smith, Joseph V. *Feldspar Minerals*, Vol. 1: *Crystal Structure and Physical Properties*. 627 pp. Springer-Verlag. \$40.10.
- Sperling, L. H., ed. *Recent Advances in Polymer Blends, Grafts, and Blocks*. Polymer Science and Technology, Vol. 4. 439 pp. Plenum Press. \$29.95.
- Stanley, Philip E., & Bruce A. Scoggins, eds. *Liquid Scintillation Counting: Recent Developments*. 495 pp. Academic Press. \$18.50.
- Strassenburg, Arnold A., ed. *An Approach to Physical Science*, brief ed. 416 pp. Wiley. \$9.95 paper.
- Swartz, Clifford E., & Theodore D. Goldfarb. *A Search for Order in the Physical Universe*. 315 pp. W. H. Freeman. \$10.50.
- Tauc, J., ed. *Amorphous and Liquid Semiconductors*. 441 pp. Plenum Press. \$28.
- Timmerhaus, K. D., W. J. O'Sullivan, E. F. Hammel, eds. *Low Temperature Physics: LT 13*, Vol. 1: *Quantum Fluids*. 669 pp. Plenum Press. \$35.
- Torchinskii, Yu. M. *Sulfhydryl and Disulfide Groups of Proteins*. Trans. by H. B. F. Dixon. 275 pp. Consultants Bureau/Plenum. \$29.50.
- Vandegaer, Jan E., ed. *Microencapsulation: Processes and Applications*. 180 pp. Plenum Press. \$17.50.
- Wailies, P. C., R. S. P. Coutts, H. Weigold. *Organometallic Chemistry of Titanium, Zirconium, and Hafnium*. 302 pp. Academic Press. \$29.50.
- Waugh, John S., ed. *Advances in Magnetic Resonance*, Vol. 7, 322 pp. Academic Press. \$28.50.

Earth Sciences

- Barrett, E. C. *Climatology from Satellites*. 418 pp. Harper & Row. No price given.
- Breed, William J., & Evelyn C. Roat, eds. *Geology of the Grand Canyon*. 185 pp. Grand Canyon, AZ: Museum of Northern Arizona. \$5 paper.
- Hampton, Loyd, ed. *Physics of Sound in Marine Sediments*. 567 pp. Plenum Press. \$32.50.
- Hess, Wilnot N., ed. *Weather and Climate Modification*. 842 pp. Wiley-Interscience. \$29.95.
- Inderbitzen, Anton L., ed. *Deep-Sea Sediments: Physical and Mechanical Properties*. 497 pp. Plenum Press. \$35.
- Kobayashi, Teiichi, & Ryuzo Toriyama, eds. *Geology and Palaeontology of Southeast Asia*, Vol. 13. 184 pp. International Scholarly Book Services, 1973. \$36.
- Lockwood, John G. *World Climatology: An Environmental Approach*. 330 pp. St. Martin's Press. \$29.95.
- Marchuk, G. I. *Numerical Methods in Weather Prediction*. Trans. by K. N. Triogoff & V. R. Lamb. 277 pp. Academic Press. \$21.50.
- Nairn, Alan E. M., & Francis G. Stehli, eds. *The Ocean Basins and Margins*, Vol. 2: *The North Atlantic*. 598 pp. Plenum Press. \$38.
- Picó, Rafael. *The Geography of Puerto Rico*. 439 pp. Aldine. \$12.50.
- Sellers, William D., & Richard H. Hill, eds. *Arizona Climate: 1931-1972*, rev., 2nd ed. 616 pp. University of Arizona Press. \$18.
- Smiley, Terah L., & James H. Zumberge, eds. *Polar Deserts and Modern Man*. 173 pp. University of Arizona Press. \$11.50.
- Thomas, Michael F. *Tropical Geomorphology: A Study of Weathering and Landform Development in Warm Climates*. 332 pp. Halsted Press. \$11.75.
- Vinnichenko, N. K., & A. G. Gorelick, eds. *Advances in Satellite Meteorology*, Vol. 2. 147 pp. Halsted Press. \$18.50.

Life Sciences

- Arber, W., et al., eds. *Current Topics in Microbiology and Immunology*, Vol. 64. 157 pp. Springer-Verlag. \$27.90.
- Avery, J., ed. *Membrane Structure and Mechanisms of Biological Energy Transduction*. 602 pp. Plenum Press, 1973. \$20.
- Bachelard, H. S. *Brain Biochemistry*. 71 pp. M. W. Steward. *Immunochimistry*. 64 pp. Outline Studies in Biology. Halsted Press. \$2.95 each, paper.
- Basic Mechanisms in Plant Morphogenesis*. 429 pp. Upton, NY: Brookhaven National Laboratory, 1973. \$10.60 paper.
- Beers, Roland F., Jr., R. Carmichael Tilghman, Edward G. Bassett, eds. *The Role of Immunological Factors in Viral and Oncogenic Processes*. 487 pp. Johns Hopkins University Press. \$22.50.
- Bendz, Gerd, & Johan Santesson, eds. *Chemistry in Botanical Classification*. Proc. of the 25th Nobel Symp., Södergarn, Lidingö, Sweden, August 1973. 320 pp. Academic Press. \$27.50.
- Bessis, Marcel. *Corpuscles: Atlas of Red Blood Cell Shapes*. Springer-Verlag. \$26.20.
- Bidwell, R. G. S. *Plant Physiology*. 643 pp. Macmillan. \$14.95.
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Annual Index

American Scientist

Volume 62, 1974

Articles and Announcements

- Ayala, Francisco J. *Biological Evolution: Natural Selection or Random Walk?* Nov., 692.
- Baker, William O. *Signals and Solids: The Joining of Science and Engineering*, Jan., 83.
- Bernstein, Irwin S., and Thomas P. Gordon. *The Function of Aggression in Primate Societies*, May, 304.
- Botkin, Daniel B., and Richard S. Miller. *Complex Ecosystems: Models and Predictions*, July, 448.
- Brittan, Michael I. *Gold Recovery in South Africa*, July, 402.
- Bromley, D. Allan. *New Directions in Physics*, May, 293.
- Brush, Stephen G. *The Prayer Test*, Sept., 561.
- Cheney, Eric S. *U.S. Energy Resources: Limits and Future Outlook*, Jan., 14.
- Cloud, Preston. *Evolution of Ecosystems*, Jan. 54.
- Dolan, Robert, Alan Howard, and Arthur Gallenson. *Man's Impact on the Colorado River in the Grand Canyon*, July, 392.
- Ehrenfeld, David W. *Conserving the Edible Sea Turtle: Can Mariculture Help?* Jan., 23.
- Feeney, Robert E. *A Biological Antifreeze*, Nov., 712.
- Gibbons, J. Whitfield, and Rebecca R. Sharitz. *Thermal Alteration of Aquatic Ecosystems*, Nov., 660.
- Grinter, Linton E. *Opportunities and Future Problems of Sigma Xi*, Jan., 132.
- Häfele, Wolf. *A Systems Approach to Energy*, July, 438.
- Hammond, R. Philip. *Nuclear Power Risks*, Mar., 155.
- Handler, Philip. *Whither American Science?* July, 410.
- Herbig, George H. *Interstellar Smog*, Mar., 200.
- Holdren, John P., and Paul R. Ehrlich. *Human Population and the Global Environment*, May, 282.
- Hopkins, Carl D. *Electric Communication in Fish*, July, 426.
- Hutchinson, G. Evelyn. *Aposematic Insects and the Master of the Brussels Initials*, May, 161.
- Idso, Sherwood, B. *Tornado or Dust Devil: The Enigma of Desert Whirlwinds*, Sept., 530.
- Julesz, Bela. *Cooperative Phenomena in Binocular Depth Perception*, Jan., 32.
- Kerker, Milton. *Movement of Small Particles by Light*, Jan., 92.
- Lang, Judith C. *Biological Zonation at the Base of a Reef*, May, 272.
- Letters to the Editors. Appears in each issue.
- Mayr, Ernst. *Behavior Programs and Evolutionary Strategies*, Nov., 650.
- Miller, Richard S., and Daniel B. Botkin. *Endangered Species: Models and Predictions*, Mar., 172.
- Millikan, Allan G. *Image Detection at the Telescope*, May, 324.
- Miyakoda, Kikuro. *Numerical Weather Prediction*, Sept., 564.
- Opler, Paul A. *Oaks as Evolutionary Islands for Leaf-Mining Insects*, Jan., 67.
- Palmer, Allison R. *Search for the Cambrian World*, Mar., 216.
- Peters, Philip C. *Black Holes: New Horizons in Gravitational Theory*, Sept., 575.
- Pojeta, John, Jr., and Bruce Runnegar. *Fordilla troyensis and the Early History of Pelecypod Mollusks*, Nov., 706.
- Prud'homme, Robert K. *Automobile Emissions Abatement and Fuels Policy*, Mar., 191.
- Raghavan, Valayamghat. *Control of Differentiation in the Fern Gametophyte*, July, 465.
- Ragotzkie, Robert A. *The Great Lakes Rediscovered*, July, 454.
- Ralph, Elizabeth K., and Henry N. Michael. *Twenty-five Years of Radiocarbon Dating*, Sept., 553.
- RESA Financial Statement, December 31, 1973, July, 511.
- Rossiter, Margaret W. *Women Scientists in America before 1920*, May, 312.
- Rubin, Zick. *Lovers and Other Strangers: The Development of Intimacy in Encounters and Relationships*, Mar., 182.
- The Scientists' Bookshelf. Appears in each issue.
- Sigma Xi, The Scientific Research Society of North America. News appears in each issue.
- Chapter-at-Large News. Appears in each issue.
- Financial Statements, Jan., 141.
- Grants-in-Aid of Research Awards, Sept., 633.
- Lectureship Program, Spring 1974, Jan., 139.
- National Lecturers 1975-76, Sept., 522.
- National Officers and Standing Committees, Jan., 6.
- Proposed Revisions to the Constitution and Bylaws, Sept., 631.
- 74th National Meeting, Report, Jan., 4.
- 75th National Meeting, Program, Sept. 528.
- Singer, Jerome L. *Daydreaming and the Stream of Thought*, July, 417.
- Talbot, Lawrence, and Stanley A. Berger. *Fluid-Mechanical Aspects of the Human Circulation*, Nov., 671.
- Tulving, Endel. *Cue-Dependent Forgetting*, Jan., 74.
- Tutte, W. T. *Map-Coloring Problems and Chromatic Polynomials*, Nov., 702.
- Uzzell, Thomas, and Christina Spolsky. *Mitochondria and Plastids as Endosymbionts: A Revival of Special Creation?* May, 334.
- Veverka, Joseph, and Carl Sagan. *McLaughlin and Mars*, Jan., 44.
- Wagner, Edward K. *The Replication of Herpes Viruses*, Sept., 584.
- Walcott, Charles. *The Homing of Pigeons*, Sept., 542.
- Wheeler, John Archibald. *The Universe as Home for Man*, Nov., 683.
- Wightman, Frederic L., and David M. Green. *The Perception of Pitch*, Mar., 208.
- Wilhelm, Stephen. *The Garden Strawberry: A Study of Its Origin*, May, 264.

Book Review Index By Author

- Abramson, Harvey. *Theory and Application of a Bottom-Up Syntax-Directed Translator*. Jan., 122.
- Ager, D. V. *The Nature of the Stratigraphical Record*. July, 482.
- Agin, D. P., ed. *Perspectives in Membrane Biophysics: A Tribute to Kenneth S. Cole*. May, 362.
- Ahmadjian, V., & M. Hale, eds. *The Lichens*. Nov., 732.
- Altschul, A. M., ed. *New Protein Foods*. Vol. 1A. Nov., 730.
- Altschul, S. *Drugs and Foods from Little-Known Plants*. Jan., 105.
- Anderson, D. A. *Introduction to Microbiology*. Sept., 608.
- Anderson, J. R., & G. H. Bower. *Human Associative Memory*. July, 497.
- Anderson, P. M. *Analysis of Faulted Power Systems*. Sept., 614.
- Andrews, H. C. *Introduction to Mathematical Techniques in Pattern Recognition*. March, 244.
- Anfinsen, C. B., M. Potter, A. Schechter. *Current Research in Oncology, 1972*. Jan., 106.
- Appley, M. H., ed. *Adaptation-Level Theory*. Nov., 742.
- ApSimon, John, ed. *The Total Synthesis of Natural Products*, Vols. 1 & 2. Sept., 599.
- Argyle, Michael, ed. *Social Encounters*. May, 368.
- Arnold, V. I. *Ordinary Differential Equations*. Sept., 613.
- Arronet, N. I. *Motile Muscle and Cell Models*. May, 355.
- Ashton, F., & A. Crafts. *Mode of Action of Herbicides*. March, 240.
- Asimov, Isaac. *Asimov on Astronomy*. Sept., 595.
- Athreya, K. B., & P. E. Ney. *Branching Processes*. Nov., 744.
- Austin, C. R., ed. *The Mammalian Fetus in vitro*. May, 352.
- Bachrach, U. *Function of Naturally Occurring Polyamines*. Sept., 603.
- Bajer, A., & J. Molè-Bajer. *Spindle Dynamics and Chromosome Movements*. May, 364.
- Baker, W. E. *Explosions in Air*. Jan., 100.
- Balls, M., & F. S. Billet, eds. *The Cell Cycle in Development and Differentiation*. July, 486.
- Bardach, J., J. Ryther, W. McLarney. *Aquaculture*. March, 237.
- Barry, J. M., & E. M. Barry. *Molecular Biology*. March, 241.
- Battan, Louis. *Weather*. Nov., 730.
- Beck, W. S., ed. *Hematology*. Jan., 115.
- Bell, R. L. *Negative Electron Affinity Devices*. Sept., 614.
- Bender, M. L., & L. Brubacher. *Catalysis and Enzyme Action*. Jan., 112.
- Berberian, S. K. *Baer*-Rings*. July, 498.
- Berlyne, D. E. *Aesthetics and Psychology*. May, 370.
- Bernstein, H. J., & D. A. Long, eds. *Journal of Raman Spectroscopy*, Vol. 1, No. 1. July, 481.
- Black, M. M., ed. *Developments in Biomedical Engineering*. Nov., 747.
- Blake, I. F., ed. *Algebraic Coding Theory: History and Development*. Sept., 611.
- Blume, Stuart. *Toward a Political Sociology of Science*. Nov., 749.
- Boardman, A., D. O'Connor, P. Young. *Symmetry and Its Applications in Science*. May, 348.
- Boardman, R. S., A. H. Cheetham, W. A. Oliver, Jr., eds. *Animal Colonies: Development and Function Through Time*. Nov., 737.
- Bogoch, Abraham, ed. *Gastroenterology*. Jan., 105.
- Bonica, J. J., ed. *Advances in Neurology*, Vol. 4. Nov., 738.
- Borek, Felix, ed. *Immunogenicity*. March, 233.
- Boreus, L. O., ed. *Fetal Pharmacology*. July, 492.
- Bosch, L., ed. *The Mechanism of Protein Synthesis and Its Regulation*. March, 234.
- Bourne, G. H., ed. *Nonhuman Primates and Medical Research*. May, 353.
- Bourne, G. H., ed. *The Structure and Function of Muscle*, Vol. 1. Jan., 114.
- Bourne, G. H., ed. *The Structure and Function of Muscle*, Vol. 3. Sept., 606.
- Bourne, G. H., ed. *The Structure and Function of Muscle*, Vol. 4. Nov., 736.
- Bourne, G. H., ed. *The Structure and Function of Nervous Tissue*, Vol. 4. Jan., 112.
- Bourne, G. H., ed. *Structure and Function of Nervous Tissue*, Vol. 6: *Structure 4 and Physiology 4*. Sept., 606.
- Bourne, G. H., ed. *World Review of Nutrition and Dietetics*. March, 236.
- Bourne, P., & R. Fox, eds. *Alcoholism: Progress in Research and Treatment*. May, 366.
- Bousfield, E. L. *Shallow-Water Gammaridean Amphipoda of New England*. March, 235.
- Bowler, M. G. *Nuclear Physics*. May, 348.
- Boyer, P. D., ed. *The Enzymes*, Student Edition. March, 241.
- Brechna, H. *Superconducting Magnet Systems*. Nov., 727.
- Bredon, G. E. *Introduction to Compact Transformation Groups*. Jan., 120.
- Briody, B. A., ed. *Microbiology and Infectious Disease*. Nov., 739.
- Brookfield, Harold, ed. *The Pacific in Transition*. Nov., 743.
- Brown, J. H., & J. F. Dickson, III, eds. *Advances in Biomedical Engineering*. Nov., 747.
- Brown, Roger. *A First Language*. May, 368.
- Brown, S. C., ed. *Physics 50 Years Later*. Nov., 721.
- Brusca, R. C. *A Handbook to the Common Intertidal Invertebrates*. May, 361.
- Campbell, A. M., & J. E. Evetts. *Critical Currents in Superconductors*. May, 345.
- Canadian Government Commission of Inquiry. *The Non-Medical Use of Drugs*. March, 242.
- Canny, M. J. *Phloem Translocation*. July, 486.
- Carpenter, M. B. *Core Text of Neuroanatomy*. Jan., 106.
- Casida, J. E., ed. *Pyrethrum: The Natural Insecticide*. Sept., 602.
- Caspersson, T., & L. Zech, eds. *Chromosome Identification*. Jan., 106.
- Chapman, D., & D. F. H. Wallach, eds. *Biological Membranes*, Vol. 2. May, 356.
- Charm, S., & G. Kurland. *Blood Flow and Microcirculation*. Sept., 608.
- Chavin, W., ed. *Responses of Fish to Environmental Changes*. Sept., 609.
- Chen, W. K. *Applied Graph Theory*. Sept., 616.
- Chorley, R., R. Beckinsale, A. Dunn. *The History of the Study of Landforms*, Vol. 2. May, 376.
- Ciba. *Haemopoietic Stem Cells*. May, 355.
- Ciba Foundation Symp. 11. *Hard Tissue Growth, Repair and Remineralization*. Sept., 608.
- Cipolla, C. M. *Cristofano and the Plague*. May, 376.
- Clawson, M., & H. Lansberg, eds. *Desalting Seawater*. Jan., 122.
- Cochran, J. A. *The Analysis of Linear Integral Equations*. Jan., 121.
- Cohen, I. B. *Introduction to Newton's Principia*. Jan., 124.
- Cohen, M. A. *A Course in Simple-Homotopy Theory*. Jan., 121.
- Colinvaux, P. A. *Introduction to Ecology*. Jan., 116.
- Collier, B. D., et al. *Dynamic Ecology*. March, 242.
- Cooper, R. *Introduction to Queueing Theory*. Sept., 611.

- Cormier, M. J., D. M. Hercules, J. Lee. *Chemiluminescence and Bioluminescence*. May, 346.
- Costabel, P. *Leibniz and Dynamics: The Texts of 1692*. July, 500.
- Counce, S. J., & C. H. Waddington, eds. *Developmental Systems: Insects*, Vols. 1-2. March, 235.
- Crowle, A. J. *Immunodiffusion*, 2nd ed. May, 363.
- Cushing, David. *The Detection of Fish*. Nov., 746.
- Dalton, A. J., & F. Haguenau, eds. *Ultrastructure of Animal Viruses and Bacteriophages: An Atlas*. July, 494.
- Darmstadter, J., P. D. Teitelbaum, J. G. Polach. *Energy in the World Economy*. July, 498.
- Davidovits, Paul. *Communication*. May, 373.
- Davies, A. J. S., & R. L. Carter, eds. *Contemporary Topics in Immunobiology*, Vol. 2: *Thymus Dependence*. July, 491.
- Dawber, J. G., & A. T. Moore. *Chemistry for the Life Sciences*. July, 484.
- Day, P. *Genetics of Host-Parasite Interaction*. Nov., 740.
- Debus, A. G., ed. *Science, Medicine and Society in the Renaissance: Essays to Honor Walter Pagel*, Vols. 1 & 2. Sept., 618.
- Deichmann, W. B., ed. *Pesticides and the Environment*. July, 496.
- DeMello, W. C., ed. *Electrical Phenomena in the Heart*. March, 232.
- d'Eramo, N., & M. Levi. *Neurological Symptoms in Blood Diseases*. July, 492.
- Desmedt, J. E., ed. *New Developments in Electromyography and Clinical Neurophysiology*, Vols. 1-3. July, 494.
- Dingle, J. T., ed. *Lysosomes in Biology and Pathology*, Vol. 3. Sept., 603.
- Dinter, Heinz. *Introduction to Computing*. Jan., 121.
- Duda, R., & P. Hart. *Pattern Classification and Scene Analysis*. Nov., 745.
- Duerr, W. A., ed. *Timber!* Nov., 732.
- Dugan, P. R. *Biochemical Ecology of Water Pollution*. Nov., 741.
- Dunn, W. L., Jr., ed. *Smoking Behavior*. May, 368.
- Durbin, J. *Mathematics: Its Spirit and Evolution*. Jan., 119.
- Ebert, J., et al. *Biology*. March, 230.
- Eccles, J. *The Understanding of the Brain*. Jan., 114.
- Edwards, C. A., & J. R. Lofty. *Biology of Earthworms*. Jan., 110.
- Ehlers, E. *The Interpretation of Geological Phase Diagrams*. Sept., 599.
- Eisenbud, M. *Environmental Radioactivity*, 2nd ed. May, 346.
- Ekman, Paul, ed. *Darwin and Facial Expression*. Nov., 749.
- Elms, Alan. *Social Psychology and Social Relevance*. Jan., 118.
- Emanuel, N. M., & L. S. Evseenko. *Clinical Oncology: A Quantitative Approach*. Sept., 608.
- Emeleus, H. J., & A. G. Sharpe. *Modern Aspects of Inorganic Chemistry*. Sept., 598.
- Emlen, J. M. *Ecology: An Evolutionary Approach*. Jan., 116.
- Ensminger, Dale. *Ultrasonics*. May, 345.
- Ephremides, A., & J. B. Thomas, eds. *Random Processes*. Nov., 745.
- Eprussi, Boris. *Hybridization of Somatic Cells*. May, 355.
- Erasmus, D. A. *The Biology of Trematodes*. Jan., 110.
- Ernst, C., & R. W. Barbour. *Turtles of the United States*. May, 349.
- Erwin, J., ed. *Lipids and Biomembranes of Eukaryotic Microorganisms*. Nov., 731.
- Ewan, J., & N. Ewan. *John Bannister and His Natural History of Virginia, 1678-1692*. May, 375.
- Ewer, R. F. *The Carnivores*. Jan., 104.
- Fagan, J. J. *The Earth Environment*. Sept., 599.
- Faires, R. A., & B. H. Parks. *Radioisotope Laboratory Techniques*, 3rd ed. Sept., 596.
- Farner, D., & J. King, eds. *Avian Biology*, Vol. 2. March, 236.
- Featherstone, R. M., ed. *A Guide to Molecular Pharmacology-Toxicology*, Vol. 1, Parts 1 & 2. July, 490.
- Feld, B., & G. W. Szilard, eds. *The Collected Works of Leo Szilard: Scientific Papers*. May, 375.
- Fenner, F., et al. *The Biology of Animal Viruses*, 2nd ed. Nov., 737.
- Ferguson, John. *The Heritage of Hellenism*. March, 248.
- Fergusson, J. E. *Stereochemistry and Bonding in Inorganic Chemistry*. Nov., 727.
- Fest, C., & K.-J. Schmidt. *The Chemistry of Organophosphorus Pesticides*. May, 367.
- Finocchiaro, M. A. *History of Science as Explanation*. Jan., 124.
- Finter, N. B., ed. *Interferons and Interferon Inducers*, rev. ed. July, 489.
- Flanders, H., & J. Price. *Introductory College Mathematics: With Linear Algebra and Finite Mathematics*. May, 371.
- Flores, Ivan. *Peripheral Devices*. Nov., 745.
- Flynn, E. H., ed. *Cephalosporins and Penicillins*. May, 365.
- Forst, Wendell. *Theory of Unimolecular Reactions*. Sept., 596.
- Fox, C. F., & W. Robinson, eds. *Virus Research*. Sept., 606.
- Fox, S., & K. Dose. *Molecular Evolution and the Origin of Life*. March, 241.
- Funatsu, M., et al., eds. *Proteins*, Vols. 1-2. March, 241.
- Fuortes, M., ed. *Handbook of Sensory Physiology*, Vol. 7/2. Jan., 106.
- Gagen, T., M. Hale Jr., E. Shult, eds. *Finite Groups '72*. July, 498.
- Gale, Fay. *Urban Aborigines*. July, 496.
- Gamkrelidze, R. V., ed. *Progress in Mathematics*, Vol. 12. Jan., 119.
- Garattini, S., & G. Franchi, eds. *Chemotherapy of Cancer Dissemination and Metastasis*. Sept., 605.
- Garattini, S., & R. Mussini, eds. *The Benzodiazepines*. May, 365.
- Gaskin, D. E. *Whales, Dolphins, and Seals (With Special Reference to the New Zealand Region)*. Sept., 600.
- Gatto, R., ed. *Developments in High-Energy Physics*. March, 229.
- Gear, C. W. *Introduction to Computer Science*. Nov., 746.
- Ghiselin, Michael. *The Triumph of the Darwin Method*. Jan., 123.
- Giddings, J. Calvin. *Chemistry, Man, and Environmental Change*. Jan., 117.
- Gilbert, J. H., ed. *Speech and Cortical Functioning*. Sept., 605.
- Gillies, D. A. *An Objective Theory of Probability*. Sept., 613.
- Goodman, M., & F. Morehouse. *Organic Molecules in Action*. May, 362.
- Goss, J. A., *Physiology of Plants and Their Cells*. May, 356.
- Graham, Alistair. *The Gardeners of Eden*. July, 496.
- Graham, Michael. *A Natural Ecology*. Sept., 610.
- Gray, Peter, ed. *The Encyclopedia of Microscopy and Microtechnique*. July, 490.
- Greenberg, Bernard. *Flies and Disease*, Vol. 2: *Biology and Disease Transmission*. July, 494.
- Greengard, P., & G. A. Robison, eds. *Advances in Cyclic Nucleotide Research*, Vol. 3. July, 494.
- Greenspan, H. P., & D. J. Benney. *Calculus*. July, 498.
- Gregg, L. W., ed. *Cognition in Learning and Memory*. Jan., 119.
- Grell, K. G. *Protozoology*. Nov., 734.
- Greub, W., S. Halperin, R. Vanstone. *Connections, Curvature, and Cohomology*, Vol. 2. Nov., 744.
- Gribbin, J., & S. Plagemann. *The Jupiter Effect*. Nov., 721.
- Grzimek, Bernhard, ed. *Grzimek's Animal Life Encyclopedia*, Vol. 9: *Birds*. 3. July, 484.
- Halver, J. E., ed. *Fish Nutrition*. March, 236.
- Hammond, D., ed. *The Coccidia*. May, 364.
- Hammond, Norman, ed. *South Asian Archaeology*. Nov., 742.
- Hansen, Per Brinch. *Operating System Principles*. Sept., 612.
- Harary, F., & E. Palmer. *Graphical Enumeration*. Sept., 616.
- Hatfield, W. E., & W. E. Parker. *Symmetry in Chemical Bonding and Structure*. Nov., 727.
- Hatsopoulos, G. N., & E. P. Gyftopoulos. *Thermionic Energy Conversion*, Vol. 1. Nov., 747.
- Hawkins, D., & L. Pauling, eds. *Orthomolecular Psychiatry*. May, 370.
- Heisenberg, Werner. *Across the Frontiers*. May, 344.
- Hejzlar, M., M. Semondky, S. Madak, eds. *Advances in Antimicrobial and Antineoplastic Chemotherapy*, Vols. 1-2. Jan., 113.
- Heneghan, J. B., ed. *Germfree Research*. May, 352.
- Hermann, R. *Geometry, Physics, and Systems*. May, 370.
- Hermes, H. *Introduction to Mathematical Logic*. Jan., 121.
- Herrnstein, R. J. I. Q. *in the Meritocracy*. Sept., 610.
- Hers, H. G., & F. van Hoof, eds. *Lysosomes and Storage Diseases*. July, 492.

Annual Index, continued

- Hey, J. S. *The Evolution of Radio Astronomy*. July, 500.
- Higgs, E., ed. *Papers in Economic Prehistory*. March, 243.
- Hightower, J. W., ed. *Catalysis*, Vols. 1 & 2. Sept., 596.
- Hoefs, J. *Stable Isotope Geochemistry*. July, 482.
- Holland, A. S. B. *Introduction to the Theory of Entire Functions*. Sept., 611.
- Holmes, R., & J. Ball. *The Pituitary Gland*. Nov., 736.
- Holton, P., ed. *Pharmacology of Gastrointestinal Motility and Secretion*, Vols. 1-2. Nov., 737.
- Holz, R. K., ed. *The Surveillance Science: Remote Sensing of the Environment*. May, 373.
- Honigfeld, G., & A. Howard. *Psychiatric Drugs: A Desk Reference*. May, 362.
- Huijing, F., & E. Lee, eds. *Protein Phosphorylation in Control Mechanisms*. Sept., 604.
- Hull, D. L. *Darwin and His Critics*. Sept., 618.
- Humphreys, J. *Introduction to Lie Algebras and Representation Theory*. Jan., 120.
- Inglis, D. R. *Nuclear Energy: Physics and Its Social Challenge*. Jan., 100.
- Izard, C. E. *Patterns of Emotion: A New Analysis of Anxiety and Depression*. Jan., 118.
- Jaenicke, R., & E. Helmreich, eds. *Protein-Protein Interactions*. May, 359.
- Jameson, D., & L. Hurvich, eds. *Handbook of Sensory Physiology*, Vol. 7/4. Jan., 108.
- Jenkins, F. A., Jr., ed. *Primate Locomotion*. Nov., 742.
- Josimovich, J. B., ed. *Uterine Contraction: Side Effects of Steroidal Contraceptives*. May, 352.
- Kahan, B. D., & R. A. Reisfeld, eds. *Transplantation Antigens*. March, 232.
- Kallard, T., ed. *Liquid Crystal Devices*. July, 480.
- Kangro, H., ed. *Planck's Original Papers in Quantum Physics*, Vol. 1. May, 374.
- Kapany, N. S., & J. J. Burke. *Optical Waveguides*. May, 346.
- Katzan, H., Jr. *Operating Systems: A Pragmatic Approach*. Sept., 612.
- Kawata, Tatsuo. *Fourier Analysis in Probability Theory*. May, 370.
- Kazan, B., ed. *Advances in Image Pickup and Display*, Vol. 1. Nov., 746.
- Kenny, A. J. P., et al. *The Nature of Mind, The Gifford Lectures 1971-72*. July, 501.
- Kingman, J. F. C. *Regenerative Phenomena*. July, 498.
- Kinzie, P. A. *Thermocouple Temperature Measurement*. May, 372.
- Kitaigorodsky, A. I. *Molecular Crystals and Molecules*. Nov., 727.
- Klauber, L. *Rattlesnakes*, 2nd ed. May, 349.
- Klein, E. *Mathematical Methods in Theoretical Economics: Topological and Vector Space Foundations of Equilibrium Analysis*. Sept., 612.
- Klemm, W. R. *Science, the Brain, and Our Future*. Jan., 114.
- Kline, M. *Mathematical Thought from Ancient to Modern Times*. May, 373.
- Knudsen, J. W. *Collecting and Preserving Plants and Animals*. Jan., 109.
- Knuth, D. E. *The Art of Computer Programming*, Vol. 1: *Fundamental Algorithms*, 2nd ed. Sept., 594.
- Kolchin, E. R. *Differential Algebra and Algebraic Groups*. Sept., 612.
- Kowalski, Paul. *Applied Photographic Theory*. May, 372.
- Koyré, Alexandre. *The Astronomical Revolution*. Sept., 620.
- Kruger, P., & C. Otte, eds. *Geothermal Energy*. July, 498.
- Kuttruff, Heinrich. *Room Acoustics*. Nov., 727.
- Lamb, H. H. *Climate*, Vol. 1. Nov., 728.
- Lancaster, H. O. *An Introduction to Medical Statistics*. Sept., 608.
- Landau, R. L., ed. *Regulating New Drugs*. Nov., 736.
- Langley, L. L., ed. *Homeostasis*. May, 355.
- Laskin, A. I., & S. H. A. Lechevalier, eds. *Handbook of Microbiology*, Vol. 1: *Organismic Microbiology*. July, 490.
- Laszlo, Ervin, ed. *The World System*. May, 374.
- Lee, D., & P. Kotin, eds. *Multiple Factors in the Causation of Environmentally Induced Disease*. March, 242.
- Lefebvre, P. J., & R. Unger, eds. *Glucagon: Molecular Physiology, Clinical and Therapeutic Implications*. Jan., 109.
- Lehto, O., & K. I. Virtanen. *Quasiconformal Mappings in the Plane*, 2nd ed. Sept., 613.
- Leive, L., ed. *Bacterial Membranes and Walls*. Nov., 740.
- Lemberg, R., & J. Barrett. *Cytchromes*. May, 359.
- Levich, B. G. *Theoretical Physics*, Vol. 4, Part 6: *Quantum Statistics and Physical Kinetics*. July, 478.
- Levine, R., & R. Luft, eds. *Advances in Metabolic Disorders*, Vol. 6. Jan., 109.
- Levine, R. A. *Culture, Behavior, and Personality*. May, 369.
- Levine, Ruth. *Pharmacology: Drug Actions and Reactions*. Jan., 106.
- Levinson, Harry. *Organizational Diagnosis*. May, 372.
- Lieberstein, H. M. *Mathematical Physiology*. Nov., 745.
- Lightfoot, E. N. *Transport Phenomena and Living Systems*. Nov., 740.
- Lindahl-Kiessling, K., & D. Osoba, eds. *Lymphocyte Recognition and Effector Mechanisms*. Nov., 734.
- Lindenbaum, S. J. *Particle-Interaction Physics at High Energies*. Nov., 724.
- Lindner, G., & K. Nyberg, eds. *Environmental Engineering*. Nov., 741.
- Lindsay, P., & D. Norman. *Human Information Processing: An Introduction to Psychology*. March, 244.
- Lindsay, R. B. *Men of Physics: Julius Robert Mayer, Prophet of Energy*. Sept., 619.
- Lindsay, R. B., ed. *Acoustics: Historical and Philosophical Development*. July, 478.
- Lipkin, H. J. *Quantum Mechanics: New Approaches to Selected Topics*. July, 481.
- Livingston, J. A. *One Cosmic Instant: Man's Fleeting Supremacy*. Jan., 99.
- Lorenz, Konrad. *Civilized Man's Eight Deadly Sins*. Nov., 740.
- Loewus, F., ed. *Biogenesis of Plant Cell Wall Polysaccharides*. May, 358.
- Luckey, T. D., ed. *Thymic Hormones*. May, 364.
- Lüttge, U., ed. *Microautoradiography and Electron Probe Analysis*. Jan., 113.
- McCall, G. J. H. *Meteorites and Their Origins*. May, 348.
- McCormack, P. D., & L. Crane. *Physical Fluid Dynamics*. March, 246.
- McDevitt, H. O., & M. Landy. *Genetic Control of Immune Responsiveness*. March, 233.
- McDowell, F., & A. Barbeau, eds. *Advances in Neurology*, Vol. 5. Nov., 739.
- McElhinny, M. W. *Paleomagnetism and Plate Tectonics*. May, 348.
- McGowan, F. K., & W. T. Milner. *Charged-Particle Reaction List, 1948-1971*. July, 477.
- MacKinnon, E. A., ed. *The Problem of Scientific Realism*. March, 248.
- McNaughton, R., & S. Papert. *Counter-Free Automata*. Sept., 612.
- McQuarrie, D. A. *Statistical Thermodynamics*. Sept., 598.
- Malkevitch, J., & W. Meyer. *Graphs, Models, and Finite Mathematics*. Sept., 612.
- Mangelsdorf, P. C. *Corn: Its Origin, Evolution, and Improvement*. Nov., 720.
- Mangos, J. A., & R. C. Talamo, eds. *Fundamental Problems of Cystic Fibrosis and Related Diseases*. July, 492.
- Margulis, Lynn, ed. *Origins of Life: Chemistry and Radioastronomy*. July, 480.
- Markham, Roy, et al., eds. *The Generation of Subcellular Structures*. July, 491.
- Marks, G. C., & T. T. Kozlowski, eds. *Ectomycorrhizae: Their Ecology and Physiology*. July, 486.
- Marsh, R. W., ed. *Systemic Fungicides*. July, 489.
- Marshall, J. L. *Lightning Protection*. Sept., 614.
- Masterson, W. L., & E. J. Slowinski. *Chemical Principles*, 3rd ed. July, 478.
- May, R. M. *Stability and Complexity in Model Ecosystems*. Sept., 602.
- Mayeda, W. *Graph Theory*. Sept., 616.
- Maynard Smith, J. *Models in Ecology*. Sept., 609.
- Meadows, D. L., & D. H. Meadows. *Toward Global Equilibrium: Collected Papers*. July, 495.

- Mechoulam, R., ed. *Marijuana*. May, 366.
- Medawar, P. B. *The Hope of Progress: A Scientist Looks at Problems in Philosophy, Literature and Science*. July, 500.
- Meggars, B., E. Ayensu, D. Duckworth, eds. *Tropical Forest Ecosystems in Africa and South America*. May, 367.
- Mendoza, E., ed. *A Random Walk in Science: An Anthology*. Sept., 595.
- Merton, R. K. *The Sociology of Science: Theoretical and Empirical Investigations*. Sept., 618.
- Meyer, E., & E.-G. Neumann. *Physical and Applied Acoustics*. May, 345.
- Meynell, G. G. *Bacterial Plasmids*. May, 359.
- Mihich, Enrico, ed. *Drug Resistance and Selectivity: Biochemical and Cellular Basis*. July, 491.
- Miles, J. W. *Integral Transforms in Applied Mathematics*. Jan., 121.
- Milgram, S. *Obedience to Authority*. July, 476.
- Milgram, S., & R. L. Shotland. *Television and Antisocial Behavior*. Nov., 742.
- Mill, P. J. *Respiration in the Invertebrates*. May, 356.
- Miller, L. P., ed. *Phytochemistry*, Vol. 3: *Inorganic Elements and Special Groups of Chemicals*. July, 490.
- Miller, Willard, Jr. *Symmetry Groups and Their Applications*. May, 370.
- Milnor, J., & D. Husemoller. *Symmetric Bilinear Forms*. July, 497.
- Misner, C., K. Thorne, J. Wheeler. *Gravitation*. Jan., 101.
- Mittwoch, Ursula. *Genetics of Sex Differentiation*. May, 362.
- Miyashiro, Akiho. *Metamorphism and Metamorphic Belts*. Nov., 728.
- Moav, Rom. *Agricultural Genetics*. Nov., 731.
- Moen, A. N. *Wildlife Ecology*. July, 495.
- Mohr, H. *Lectures on Photomorphogenesis*. Sept., 604.
- Morrel, A. M., et al. *Color Television and Picture Tubes*. Nov., 746.
- Mostow, G. D. *Strong Rigidity of Locally Symmetric Spaces*. Nov., 744.
- Muirhead, H. *The Special Theory of Relativity*. Sept., 598.
- Muller, H. J. *Man's Future Birthright: Essays on Science and Humanity*. March, 248.
- Murray, J. W. *Distribution and Ecology of Living Benthic Foraminiferids*. July, 486.
- Neame, K. D., & T. G. Richards. *Elementary Kinetics of Membrane Carrier Transport*. May, 364.
- Neiburger, M., J. Edinger, W. Bonner. *Understanding Our Atmospheric Environment*. July, 482.
- Newell, R. E., et al. *The General Circulation of the Tropical Atmosphere and Interactions with Extratropical Latitudes*. Sept., 600.
- Newman, J. S. *Electrochemical Systems*. Nov., 747.
- Newmark, N., & E. Rosenbluth. *Fundamentals of Earthquake Engineering*. March, 246.
- Nietschmann, Bernard. *Between Land and Water: The Subsistence Ecology of the Miskito Indians, Eastern Nicaragua*. Sept., 610.
- Nisizawa, K., ed. *Seaweed Symposium*. May, 358.
- Noback, C., & W. Montagna, eds. *The Primate Brain*. Jan., 118.
- OECD. *Water Management*. May, 350.
- Oliphant, Mark. *Rutherford—Recollections of the Cambridge Days*. Jan., 124.
- O'Malley, B. & A. Means. *Receptors for Reproductive Hormones*. May, 352.
- Ortega, J. *Meditations on Hunting*. Jan., 99.
- Ozisik, M. N. *Radiative Transfer and Interactions with Conduction and Convection*. Nov., 748.
- Palamodov, V. P. *Linear Differential Operators with Constant Coefficients*. March, 245.
- Pao, Y.-H., & C.-C. Mow. *Diffraction of Elastic Waves and Dynamic Stress Concentrations*. July, 499.
- Parsons, P. A. *Behavioral and Ecological Genetics*. Jan., 110.
- Patterson, H. W., & R. H. Thomas. *Accelerator Health Physics*. July, 477.
- Pavlidis, Theodosios. *Biological Oscillators: Their Mathematical Analysis*. July, 499.
- Pearson, R., ed. *Hard and Soft Acids and Bases*. May, 345.
- Petersen, M., J. Rigby, L. Hintze. *Historical Geology of North America*. Nov., 730.
- Pettijohn, F. J., P. E. Potter, R. Siever. *Sand and Sandstone*. Sept., 600.
- Pettyjohn, W. A., ed. *Water Quality in a Stressed Environment*. Jan., 122.
- Physics Survey Committee. *Physics in Perspective*, Vol. 2, Part B. March, 229.
- Pickford, R. W. *Psychology and Visual Aesthetics*. Sept., 610.
- Pierce, J. R. *Almost All About Waves*. Nov., 746.
- Pirie, N. W., ed. *Leaf Protein*. March, 240.
- Polten, E. P. *Critique of the Psycho-Physical Identity Theory*. Sept., 617.
- Poole, R. W. *An Introduction to Quantitative Ecology*. Nov., 741.
- Porter, I., & R. Skalko, eds. *Heredity and Society*. May, 363.
- Post, A., & E. Lachapelle. *Glacier Ice*. March, 230.
- Prasad, K. N. *Human Radiation Biology*. Nov., 738.
- Prier, J., & H. Friedman, eds. *Australia Antigen*. May, 353.
- Pye, L. D., H. J. Stevens, W. C. Lachapelle, eds. *Introduction to Glass Science*. May, 372.
- Quittner, P. *Gamma-Ray Spectroscopy with Particular Reference to Detector and Computer Evaluation Techniques*. Jan., 102.
- Radakov, D. V. *Schooling in the Ecology of Fish*. Nov., 732.
- Radjavi, H., & P. Rosenthal. *Invariant Subspaces*. Nov., 732.
- Ramwell, P. W., ed. *The Prostaglandins*, Vol. 1. Jan., 109.
- Rasool, S. I., ed. *Chemistry of the Lower Atmosphere*. July, 481.
- Rawlins, D. *Peary at the North Pole: Fact or Fiction?* May, 376.
- Redfield, Alden, ed. *Anthropology Beyond the University*. July, 496.
- Reeves, J. P., ed. *Microbial Permeability*. May, 361.
- Reid, William. *Riccati Differential Equations*. March, 245.
- Reisfeld, R. A., & W. J. Mandy, eds. *Contemporary Topics in Molecular Immunology*, Vol. 2. July, 491.
- Ricklefs, Robert. *Ecology*. May, 366.
- Roberts, A. W., & D. Varberg. *Convex Functions*. Nov., 744.
- Robinson, John. *An Integrated Theory of Finite Element Methods*. Sept., 613.
- Rodriguez, J. G., ed. *Insect and Mite Nutrition*. Jan., 104.
- Roe, D. *Prehistory: An Introduction*. March, 243.
- Roelofs, Robert, Joseph Crowley, & Donald Hardesty, eds. *Environment and Society*. Sept., 609.
- Rose, N., & P. Bigazzi, eds. *Methods in Immunodiagnosis*. Sept., 606.
- Rosen, R., ed. *Foundations of Mathematical Biology*, Vols. 1-2. May, 360.
- Rosen, Robert, ed. *Foundations of Mathematical Biology*, Vol. 3: *Supercellular Systems*. July, 489.
- Rosenberg, C. E., ed. *Medicine and Society in America*, 47 vols. March, 225.
- Rosenkrantz, B. G. *Public Health and the State: Changing Views in Massachusetts, 1842-1936*. March, 247.
- Rosswall, T., ed. *Modern Methods in the Study of Microbial Ecology*. March, 243.
- Rothfield, Lawrence, ed. *Structure and Function of Biological Membranes*. Jan., 113.
- Rothschild, B. J., ed. *World Fisheries Policy*. May, 350.
- Rouse, I. *Introduction to Prehistory*. March, 243.
- The Royal Society. *Biographical Memoirs of Fellows of the Royal Society*, Vols. 18 & 19, 1972-73. Sept., 619.
- Runeckles, V., & T. Mabry, eds. *Terpenoids*. May, 358.
- Rushing, T. B. *Topological Embeddings*. Jan., 121.
- Russell, D. H., ed. *Polyamines in Normal and Neoplastic Growth*. Nov., 736.
- Sagan, Carl. *The Cosmic Connection*. Sept., 595.
- Salomon, Jean-Jacques. *Science and Politics*. Nov., 749.
- Samish, R., ed. *Recent Advances in Plant Nutrition*, Vols. 1-2. March, 238.
- Sands, Matthew, et al. *Concepts in Physics*. July, 481.
- Sarnat, H. B., & M. G. Netsky. *Evolution of the Nervous System*. Nov., 735.
- Schepartz, B. *Regulation of Amino Acid Metabolism in Mammals*. Sept., 604.
- Schliepper, Carl, ed. *Research Methods in Marine Biology*. Jan., 102.
- Schultz, J., & H. G. Gratzner, eds.

Annual Index, continued

- The Role of Cyclic Nucleotides in Carcinogenesis.* Jan., 112.
- Schur, Max. *Freud: Living and Dying.* Nov., 748.
- Scott, M. R. *Invariant Imbedding and Its Applications to Ordinary Differential Equations.* Nov., 744.
- Seinfeld, J., & L. Lapidus. *Mathematical Methods in Chemical Engineering, Vol. 3: Process Modeling, Estimation, and Identification.* Sept., 615.
- Sela, Michael, ed. *The Antigens, Vol. 1.* Nov., 739.
- Serre, J.-P. *A Course in Arithmetic.* Jan., 120.
- Seshadri, S. R. *Plasma Physics.* May, 345.
- Setti, R. L., & T. Lasinski. *Strongly Interacting Particles.* July, 478.
- Shannon, J., ed. *Science and the Evolution of Public Policy.* March, 225.
- Shepard, Paul. *The Tender Carnivore and the Sacred Game.* Jan., 99.
- Shilling, C., & M. F. Werts. *Underwater Medicine and Related Sciences.* Jan., 102.
- Shilov, G. E. *Elementary Real and Complex Analysis.* Nov., 744.
- Shoenfield, J. R. *Degrees of Unsolvability.* Jan., 121.
- Sircar, S., ed. *International Symposium: Plant Growth Substances.* May, 358.
- Sirlin, J. L. *Biology of RNA.* Jan., 112.
- Skobel'tsyn, D. V., ed. *Physics of Atomic Collisions.* May, 344.
- Slater, J. C. *Quantum Theory of Molecules and Solids, Vol. 4.* Nov., 725.
- Sleigh, Michael. *The Biology of Protozoa.* Nov., 732.
- Small, G. *The Blue Whale.* March, 237.
- Smith, A. G. R. *Science and Society in the Sixteenth and Seventeenth Centuries.* Jan., 122.
- Smith, K., M. Lauffer, F. Bang, eds. *Advances in Virus Research, Vol. 17.* Jan., 114.
- Smith, P. *The Biology of Mycoplasmas.* March, 238.
- Sneath, P., & R. Sokal. *Numerical Taxonomy.* Sept., 602.
- South, F. E., et al., eds. *Hibernation and Hypothermia.* Jan., 104.
- Sparks, A. *Invertebrate Pathology: Noncommunicable Diseases.* March, 234.
- Sperling, O., A. De Vries, J. B. Wyngaarden, eds. *Advances in Experimental Medicine and Biology, Vols. 41A & 41B.* Nov., 734.
- Spradberry, J. P. *Wasps.* May, 350.
- Spratt, N. *Developmental Biology.* March, 230.
- Stahl, B. J. *Vertebrate History: Problems in Evolution.* Nov., 738.
- Stanley, D. J. *The Mediterranean Sea.* May, 348.
- Stearns, L. W. *Sea Urchin Development.* Nov., 732.
- Steeds, J. W. *Introduction to Anisotropic Elasticity Theory of Dislocations.* Sept., 614.
- Stein, J. R., ed. *Handbook of Phycological Methods: Culture Methods and Growth Measurement.* Sept., 605.
- Stern, A., et al., eds. *Fundamentals of Air Pollution.* May, 366.
- Stevens, R. *American Medicine and the Public Interest.* March, 246.
- Stewart, G. W. *Introduction to Matrix Computation.* March, 245.
- Stewart, I. *Galois Theory.* May, 371.
- Stewart, P. R., & D. S. Letham, eds. *The Ribonucleic Acids.* July, 489.
- Stewart, T. D. *The People of America.* Nov., 743.
- Stoddart, J. *Stereochemistry of Carbohydrates.* March, 229.
- Stone, H. S. *Discrete Mathematical Structures and Their Applications.* Sept., 613.
- Strahler, A., & A. Strahler. *Environmental Geoscience.* March, 230.
- Stroud, A. H. *Approximate Calculation of Multiple Integrals.* Jan., 120.
- Strupp, H. H. *Psychotherapy.* July, 497.
- Stubbe, Hans., *History of Genetics: From Prehistoric Times to the Rediscovery of Mendel's Laws.* Jan., 122.
- Sugimura, A., & S. Uyeda. *Island Arcs: Japan and Its Environs.* May, 349.
- Swindler, D., & C. Wood. *An Atlas of Primate Gross Anatomy: Baboon, Chimpanzee, and Man.* Sept., 600.
- Szego, G., ed. *Minimization Algorithms, Mathematical Theories and Computer Results.* May, 372.
- Taylor, W., & N. Farnsworth, eds. *The Vinca Alkaloids.* Nov., 731.
- Thackray, Arnold. *John Dalton: Critical Assessments of His Life and Science.* Sept., 617.
- Thaler, G. J. *Design of Feedback Systems.* Jan., 122.
- Thomas, Lewis. *The Lives of a Cell: Notes of a Biology Watcher.* Nov., 722.
- Tinbergen, Niko. *The Animal in its World: Explorations of an Ethologist, 1932-1972.* Jan., 99.
- Tonomura, Yuji. *Muscle Proteins, Muscle Contraction and Cation Transport.* July, 485.
- Toole, J., & A. Patel. *Cerebrovascular Disorders.* 2nd ed. Sept., 608.
- Tsyppkin, Ya. Z. *Foundations of the Theory of Learning Systems.* Sept., 615.
- Usdin, E. & S. Snyder, eds. *Frontiers in Catecholamine Research.* July, 484.
- Valentine, J. W. *Evolutionary Paleocology of the Marine Biosphere.* Nov., 728.
- Vandenbosch, R., & J. Huizenga. *Nuclear Fission.* Nov., 724.
- Vial, James, et al., eds. *Evolutionary Biology of the Anurans.* Jan., 105.
- Villee, C., D. Villee, & J. Zuckerman, eds. *Respiratory Distress Syndrome.* Sept., 605.
- Vinken, P. J., & G. W. Bruyn, eds. *Handbook of Clinical Neurology, Vols. 11-12.* March, 232.
- Vinken, P. J., & G. W. Bruyn, eds. *Handbook of Clinical Neurology, Vol. 13: Neuroretinal Degenerations.* Vol. 14: *The Phakomatoses.* Jan., 109.
- Vitaliano, Dorothy B. *Legends of the Earth: Their Geologic Origins.* Nov., 750.
- Waldbott, G. L. *Health Effects of Environmental Pollution.* Jan., 117.
- Walker, G. *Stirling-Cycle Machines.* May, 372.
- Wallace, W. A. *Causality and Scientific Explanation, Vol. 2: Classical and Contemporary Science.* Sept., 594.
- Walton, A., & J. Blackwell. *Biopolymers.* May, 360.
- Wannamaker, L. W., & J. M. Matsen, eds. *Streptococci and Streptococcal Diseases.* March, 234.
- Warren, K. S. *Schistosomiasis: The Evolution of a Medical Literature. Selected Abstracts and Citations, 1852-1972.* Sept., 605.
- Watt, Kenneth. *Principles of Environmental Science.* Jan., 116.
- Weaver, R. J. *Plant Growth Substances in Agriculture.* Jan., 102.
- Weber, W. J., Jr. *Physicochemical Processes for Water Quality Control.* Sept., 616.
- Wehner, R., ed. *Information Processing in Visual Systems of Arthropods.* March, 238.
- Weiner, J. S., & J. Huizinga, eds. *The Assessment of Population Affinities in Man.* Jan., 115.
- Weisskopf, V. F. *Physics in the Twentieth Century.* Nov., 724.
- Westfall, R. S. *Force in Newton's Physics: The Science of Dynamics in the Seventeenth Century.* Jan., 124.
- Weygand, C., & G. Hilgetg. *Preparative Organic Chemistry.* March, 229.
- White, M. J. D. *The Chromosomes,* 6th ed. July, 489.
- Whittow, G. C., ed. *Comparative Physiology of Thermoregulation, Vol. 2.* May, 353.
- Widder, D. V. *An Introduction to Transform Theory.* Jan., 120.
- Wiener, Aaron. *The Role of Water in Development.* Jan., 122.
- Williams, B. R., ed. *Science and Technology in Economic Growth.* Jan., 125.
- Willis, C., & J. Handloser, eds. *Health Physics Operational Monitoring, Vols. 2-3.* March, 226.
- Willrich, Mason. *International Safeguards and Nuclear Industry.* Jan., 100.
- Wilson, E. O., et al. *Life on Earth.* May, 361.
- Wilson, J. G. *Environment and Birth Defects.* Sept., 605.
- Wilson, R. J. *Introduction to Graph Theory.* Jan., 121.
- Winograd, Terry. *Understanding Natural Language.* Jan., 118.
- Wistreich, G., & M. D. Lechtman. *Microbiology and Human Disease.* July, 492.
- Wolf, Theta. *Alfred Binet.* May, 377.
- Wolfe, Stephen. *Biology of the Cell.* Nov., 731.
- Woodbury, Richard. *Alfred V. Kidder.* Jan., 123.
- Wright, B. E. *Critical Variables in Differentiation.* May, 360.
- Wunderlich, Bernhard. *Macromolecular Physics, Vol. 1.* July, 477.

- Yamada, K., et al., eds. *The Microbial Production of Amino Acids*. Jan., 114.
- Yeh, J. *Stochastic Processes and the Wiener Integral*. May, 371.
- Yih, C. S., ed. *Advances in Applied Mechanics*, Vol. 13. Sept., 616.
- Yudkin, M., & R. Offord. *Comprehensive Biochemistry*. July, 480.
- Yukawa, Hideki. *Creativity and Intuition*. March, 226.
- Zaborsky, O. R. *Immobilized Enzymes*. July, 480.
- Zacharia, T., ed. *Immune Response at the Cellular Level*. Sept., 605.
- Zar, J. H. *Biostatistical Analysis*. Sept., 613.
- Zbinden, Gerhard. *Progress in Toxicology*, Vol. 1: *Special Topics*. Sept., 608.
- Zeffren, E., & P. Hall. *The Study of Enzyme Mechanisms*. Nov., 734.
- Zeigarnik, B. V. *Experimental Abnormal Psychology*. March, 244.
- Zeitzschel, Berndt, ed. *The Biology of the Indian Ocean*. Nov., 741.
- Zemanian, A. H. *Realizability Theory for Continuous Linear Systems*. Jan., 120.
- Zimmerman, M. H., & C. L. Brown. *Trees*. March, 240.
- Zuckerman, A., & D. Weiss. *Dynamic Aspects of Host-Parasite Relationships*. May, 356.
- Zuckerman, A. J. *Hepatitis-Associated Antigen and Viruses*. March, 233.
- Alcoholism, Bourne, P., et al., eds. May, 366.
- Alfred Binet, Wolf, T., May, 377.
- Alfred V. Kidder, Woodbury, R., Jan., 123.
- Algebraic Coding Theory: History and Development, Blake, I. F., ed., Sept., 611.
- Almost All About Waves, Pierce, J. R., Nov., 746.
- American Medicine and the Public Interest, Stevens, R., March, 246.
- Analysis of Faulted Power Systems, Anderson, P. M., Sept., 614.
- The Analysis of Linear Integral Equations, Cochran, J. A., Jan., 121.
- Animal Colonies: Development and Function Through Time, Boardman, R. S., et al., Nov., 737.
- The Animal in its World: Explorations of an Ethologist, 1932-1972, Tinbergen, N., Jan., 99.
- Anthropology Beyond the University, Redfield, A., ed., July, 496.
- The Antigens, Vol. 1, Sela, Michael, Nov., 739.
- Applied Graph Theory, Chen, W. K., Sept., 616.
- Applied Photographic Theory, Kowalski, P., May, 372.
- Approximate Calculation of Multiple Integrals, Stroud, A. H., Jan., 120.
- Aquaculture, Bardach, J., et al., March, 237.
- The Art of Computer Programming, Vol. 1: *Fundamental Algorithms*, 2nd ed., Knuth, D. E., Sept., 594.
- Asimov on Astronomy, Asimov, I., Sept., 595.
- The Assessment of Population Affinities in Man, Weiner, J. S. et al., eds., Jan., 115.
- The Astronomical Revolution, Koyré, A., Sept., 620.
- An Atlas of Primate Gross Anatomy: Baboon, Chimpanzee, and Man, Swindler, D., et al., Sept., 600.
- Australia Antigen, Prier, J., et al., eds., May, 353.
- Avian Biology, Vol. 2, Farner, D., et al., March, 236.
- Bacterial Membranes and Walls, Leive, L., ed., Nov., 740.
- Bacterial Plasmids, Meynell, G. G., May, 359.
- Baer*-Rings, Berberian, S. K., July, 498.
- Behavioral and Ecological Genetics, Parsons, P. A., Jan., 110.
- The Benzodiazepines, Garattini, S., et al., eds., May, 365.
- Between Land and Water: The Subsistence Ecology of the Miskito Indians, Eastern Nicaragua, Nietschmann, B., Sept., 610.
- Biochemical Ecology of Water Pollution, Dugan, P. R., Nov., 741.
- Biogenesis of Plant Cell Wall Polysaccharides, Loewus, F., ed., May, 358.
- Biographical Memoirs of Fellows of The Royal Society, Vols. 18 & 19, 1972-73, The Royal Society, Sept., 619.
- Biological Membranes, Vol. 2, Chapman, D., et al., May, 356.
- Biological Oscillators: Their Mathematical Analysis, Pavlidis, T., July, 499.
- Biology, Ebert, J., et al., March, 230.
- The Biology of Animal Viruses, 2nd ed., Fenner, F., et al., Nov., 737.
- The Biology of the Cell, Wolfe, Stephen, Nov., 731.
- Biology of Earthworms, Edwards, C. A., et al., Jan., 110.
- The Biology of the Indian Ocean, Zeitzschel, B., ed., Nov., 741.
- The Biology of Mycoplasmas, Smith, P., March, 238.
- The Biology of Protozoa, Sleigh, M., Nov., 732.
- Biology of RNA, Sirlin, J. L., Jan., 112.
- The Biology of Trematodes, Erasmus, D. A., Jan., 110.
- Biopolymers, Walton, A., et al., May, 360.
- Biostatistical Analysis, Zar, J. H., Sept., 613.
- Blood Flow and Microcirculation, Charm, S., et al., Sept., 608.
- The Blue Whale, Small, G., March, 237.
- Branching Processes, Athreya, K. B., et al., Nov., 744.
- Calculus: An Introduction to Applied Mathematics, Greenspan, H. P., et al., July, 498.
- The Carnivores, Ewer, R. F., Jan., 104.
- Catalysis, Vols. 1 & 2, Hightower, J. W., ed., Sept., 596.
- Catalysis and Enzyme Action, Bender, M. L., et al., Jan., 112.
- Causality and Scientific Explanation, Vol. 2: *Classical and Contemporary Science*, Wallace, W. A., Sept., 594.
- The Cell Cycle in Development and Differentiation, Balls, M., et al., eds., July, 486.
- Cephalosporins and Penicillins, Flynn, E. H., ed., May, 365.
- Cerebrovascular Disorders, 2nd ed., Toole, J., et al., Sept., 608.
- Charged-Particle Reaction List 1948-71, McGowan, F. K. et al., July, 477.
- Chemical Principles, 3rd ed., Master-ton, W. L., et al., July, 478.
- Chemiluminescence and Bioluminescence, Cormier, M. J., et al., May, 346.
- Chemistry for the Life Sciences, Dawber, J. G., et al., July, 484.
- Chemistry, Man, and Environmental Change, Giddings, J. C., Jan., 117.
- The Chemistry of Organophosphorus Pesticides, Fest, C., et al., May, 367.
- Chemistry of the Lower Atmosphere, Rasool, S. I., ed., July, 481.
- Chemotherapy of Cancer Dissemination and Metastasis, Garattini, S., et al., eds., Sept., 605.
- Chromosome Identification, Caspers-son, T., et al., eds., Jan., 106.
- The Chromosomes, 6th ed., White, M. J. D., July, 489.
- Civilized Man's Eight Deadly Sins, Lorenzo, K., Nov., 740.
- Climate, Vol. 1, Lamb, H. H., Nov., 728.
- Clinical Oncology: A Quantitative Approach, Emanuel, N. M., et al., Sept., 608.
- The Coccidia, Hammond, D., ed., May, 364.
- Cognition in Learning and Memory, Gregg, L. W., ed., Jan., 119.
- The Collected Works of Leo Szilard:

By Title

- Accelerator Health Physics, Patterson, H. W., et al., July, 477.
- Acoustics: Historical and Philosophical Development, Lindsay, R. B., ed., July, 478.
- Across the Frontiers, Heisenberg, W., May, 344.
- Adaptation-Level Theory, Appley, M. H., ed., Nov., 742.
- Advances in Antimicrobial and Antineoplastic Chemotherapy, Hejzlar, M., et al., eds., Jan., 113.
- Advances in Applied Mechanics, Vol. 13, Yih, C. S., ed., Sept., 616.
- Advances in Biomedical Engineering, Brown, J. H., et al., eds., Nov., 747.
- Advances in Cyclic Nucleotide Research, Vol. 3, Greengard, P., et al., eds., July, 494.
- Advances in Experimental Medicine and Biology, Vols. 41A and 41B, Sperling, O., et al., eds., Nov., 734.
- Advances in Image Pickup and Display, Vol. 1, Kazan, B., ed., Nov., 746.
- Advances in Metabolic Disorders, Vol. 6, Levine, R., et al., eds., Jan., 109.
- Advances in Neurology, Vol. 4, Bonica, J. J., ed., Nov., 738.
- Advances in Neurology, Vol. 5, McDowell, F., et al., Nov., 739.
- Advances in Virus Research, Vol. 17, Smith, K., et al., eds., Jan., 114.
- Aesthetics and Psychobiology, Berlyne, D. E., May 370.
- Agricultural Genetics, Moav, Rom, Nov., 731.

Annual Index, continued

- Scientific Papers, Feld, B., et al., eds., May, 375.
- Collecting and Preserving Plants and Animals, Knudsen, J. W., Jan., 109.
- Color Television and Picture Tubes, Morrel, A. M., et al., Nov., 746.
- Communication, Davidovits, P., May, 373.
- Comparative Physiology of Thermoregulation, Vol. 2: Mammals, Whitow, C., ed., May, 353.
- Comprehensive Biochemistry, Yudkin, M., et al., July, 480.
- Concepts in Physics, Sands, M., et al., July, 481.
- Connections, Curvature, and Cohomology, Vol. 2, Greub, W., et al., Nov., 744.
- Contemporary Topics in Immunobiology, Vol. 2: Thymus Dependency, Davies, A. J. S., et al., eds., July, 491.
- Contemporary Topics in Molecular Immunology, Vol. 2, Reisfeld, R. A., et al., eds., July, 491.
- Convex Functions, Roberts, A. W., et al., Nov., 744.
- Core Text of Neuroanatomy, Carpenter, M., Jan., 106.
- Corn: Its Origin, Evolution, and Improvement, Mangelsdorf, P. C., Nov., 720.
- The Cosmic Connection, Sagan, C., Sept., 595.
- Counter-Free Automata, McNaughton, R., et al., Sept., 612.
- A Course in Arithmetic, Serre, J.-P., Jan., 120.
- A Course in Simple-Homotopy Theory, Cohen, M., Jan., 121.
- Creativity and Intuition, Yukawa, H., March, 226.
- Cristofano and the Plague, Cipolla, C. M., May, 376.
- Critical Currents in Superconductors, Campbell, A. M., et al., May, 345.
- Critical Variables in Differentiation, Wright, B. E., May, 360.
- Critique of the Psycho-Physical Identity Theory, Polten, E. P., Sept., 617.
- Culture, Behavior, and Personality, Levine, R. A., May, 369.
- Current Research in Oncology, 1972, Anfinsen, C. B., et al., Jan., 106.
- Cytochromes, Lemberg, R., et al., May, 359.
- Darwin and Facial Expression, Ekman, Paul, ed., Nov., 749.
- Darwin and His Critics, Hull, D. L., Sept., 618.
- Degrees of Unsolvability, Shoenfield, J. R., Jan., 121.
- Desalting Seawater, Clawson, M., et al., eds., Jan., 122.
- Design of Feedback Systems, Thaler, G. J., Jan., 122.
- The Detection of Fish, Cushing, D., Nov., 746.
- Developmental Biology, Spratt, N., March, 230.
- Developmental Systems: Insects, Vols. 1-2, Counce, S. J., et al., March, 235.
- Developments in Biomedical Engineering, Black, M. M., ed. Nov., 747.
- Developments in High-Energy Physics, Gatto, R., ed., March, 229.
- Differential Algebra and Algebraic Groups, Kolchin, E. R., Sept., 612.
- Diffraction of Elastic Waves and Dynamic Stress Concentrations, Pao, Y. H., et al., July, 499.
- Discrete Mathematical Structures and Their Applications, Stone, H. S., Sept., 613.
- Distribution and Ecology of Living Benthic Foraminiferids, Murray, J. W., July, 486.
- Drug Resistance and Selectivity: Biochemical and Cellular Basis, Mihich, E., ed., July, 491.
- Drugs and Foods from Little-Known Plants, Altschul, S., Jan., 105.
- Dynamic Aspects of Host-Parasite Relationships, Zuckerman, A., et al., May, 356.
- Dynamic Ecology, Collier, B. D., et al., March, 242.
- The Earth Environment, Fagan, J. J., Sept., 599.
- Ecology, Ricklefs, R., May, 366.
- Ecology: An Evolutionary Approach, Emlen, J. M., Jan., 116.
- Ectomycorrhizae: Their Ecology and Physiology, Marks, G. C., et al., eds., July, 486.
- Electrical Phenomena in the Heart, De Mello, W. C., ed., March, 232.
- Electrochemical Systems, Newman, J. S., Nov., 747.
- Elementary Kinetics of Membrane Carrier Transport, Neame, K. D., et al., May, 364.
- Elementary Real and Complex Analysis, Shilov, G. E., Nov., 744.
- The Encyclopedia of Microscopy and Microtechnique, Gray, P., ed., July, 490.
- Energy in the World Economy, Darmstadter, J., et al., July, 498.
- Environment and Birth Defects, Wilson, J. G., Sept., 605.
- Environment and Society, Roelofs, R., et al., eds. Sept., 609.
- Environmental Engineering, Lindner, G., et al., Nov., 741.
- Environmental Geoscience, Strahler, A., et al., March, 230.
- Environmental Radioactivity, 2nd ed., Eisenbud, M., May, 346.
- The Enzymes, Student Edition, Boyer, P. D., ed., March, 241.
- Evolution of the Nervous System, Sarnat, H. B., et al., Nov., 735.
- The Evolution of Radio Astronomy, Hey, J. S., July, 500.
- Evolutionary Biology of the Anurans, Vial, J., et al., eds., Jan., 105.
- Evolutionary Paleocology of the Marine Biosphere, Valentine, J. W., Nov., 728.
- Experimental Abnormal Psychology, Zeigarnik, B. V., March, 244.
- Explosions in Air, Baker, W., Jan., 100.
- Fetal Pharmacology, Boreus, L. O., ed., July, 492.
- Finite Groups '72, Gagen, T., et al., eds., July, 498.
- A First Language, Brown, R., May, 368.
- Fish Nutrition, Halver, J. E., ed., March, 236.
- Flies and Disease, Vol. 2: Biology and Disease Transmission, Greenberg, B., July, 494.
- Force in Newton's Physics: The Science of Dynamics in the Seventeenth Century, Westfall, R. S., Jan., 124.
- Foundations of Mathematical Biology, Vols. 1-2, Rosen, R., ed., May, 360.
- Foundations of Mathematical Biology, Vol. 3: Supercellular Systems, Rosen, R., ed., July, 489.
- Foundations of the Theory of Learning Systems, Tsypkin, Ya. Z., Sept., 615.
- Fourier Analysis in Probability Theory, Kawata, T., May, 370.
- Freud: Living and Dying, Schur, M., Nov., 748.
- Frontiers in Catecholamine Research, Usdin, E., et al., eds., July, 484.
- Function of Naturally Occurring Polyamines, Bachrach, U., Sept., 603.
- Fundamental Problems of Cystic Fibrosis and Related Diseases, Mangos, J. A., et al., eds., July, 492.
- Fundamentals of Air Pollution, Stern, A., et al., May, 366.
- Fundamentals of Earthquake Engineering, Newmark, N., et al., March, 246.
- Galois Theory, Stewart, I., May, 371.
- Gamma-Ray Spectroscopy with Particular Reference to Detector and Computer Evaluation Techniques, Quittner, P., Jan., 102.
- The Gardeners of Eden, Graham, A., July, 496.
- Gastroenterology, Bogoch, A., ed., Jan., 105.
- The General Circulation of the Tropical Atmosphere and Interactions with Extratropical Latitudes, Newell, R. E., et al., Sept., 600.
- The Generation of Subcellular Structures, Markham, R., et al., eds., July, 491.
- Genetic Control of Immune Responsiveness, McDevitt, H. O., et al., March, 233.
- Genetics of Host-Parasite Interaction, Day, P., Nov., 740.
- Genetics of Sex Differentiation, Mittwoch, U., May, 362.
- Geometry, Physics, and Systems, Hermann, R., May, 370.
- Geothermal Energy, Kruger, P., et al., eds., July, 498.
- Germfree Research, Heneghan, J. B., ed., May, 352.
- Glacier Ice, Post, A., et al., March, 230.
- Glucagon: Molecular Physiology, Clinical and Therapeutic Implications, Lefebvre, P. J., et al., eds., Jan., 109.
- Graph Theory, Mayeda, W., Sept., 616.
- Graphical Enumeration, Harary, F., et al., Sept., 616.
- Graphs, Models, and Finite Mathematics, Malkevitch, J., et al., Sept., 612.
- Gravitation, Misner, C., et al., Jan., 101.
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- A Guide to Molecular Pharmacology-

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- Haemopoietic Stem Cells*, Ciba, May, 355.
- Handbook of Clinical Neurology*, Vols. 11-12, Vinken, P. G., et al., eds., March, 232.
- Handbook of Clinical Neurology*, Vol. 13: *Neuroretinal Degenerations*, Vol. 14: *The Phakomatoses*, Vinken, P. J., et al., eds., Jan., 109.
- Handbook of Microbiology*, Vol. 1: *Organismic Microbiology*, Laskin, A. I., et al., eds., July, 490.
- Handbook of Phycological Methods: Culture Methods and Growth Measurement*, Stein, J. R., ed., Sept., 605.
- Handbook of Sensory Physiology*, Vol. 7/2, Fuortes, M., ed., Jan., 106.
- Handbook of Sensory Physiology*, Vol. 7/4, Jameson, D., et al., eds., Jan., 108.
- A Handbook to the Common Intertidal Invertebrates*, Brusca, R. C., May, 361.
- Hard and Soft Acids and Bases*, Pearson, R., ed., May, 345.
- Hard Tissue Growth, Repair and Remineralization*, Ciba Foundation Symp. 11, Sept., 608.
- Health Effects of Environmental Pollution*, Waldbott, G. L., Jan., 117.
- Health Physics Operational Monitoring*, Vols. 2-3, Willis, C., et al., eds., March, 226.
- Hematology*, Beck, W. S., eds., Jan., 115.
- Hepatitis-Associated Antigen and Viruses*, Zuckerman, A. J., March, 233.
- Heredity and Society*, Porter, I., et al., eds., May, 363.
- The Heritage of Hellenism*, Ferguson, J., March, 248.
- Hibernation and Hypothermia*, South, F. E., et al., eds., Jan., 104.
- Historical Geology of North America*, Petersen, M., et al., Nov., 730.
- History of Genetics: From Prehistoric Times to the Rediscovery of Mendel's Laws*, Stubbe, H., Jan., 122.
- History of Science as Explanation*, Finocchiaro, M. A., Jan., 124.
- The History of the Study of Landforms*, Vol. 2: *The Life and Work of William Morris Davis*, Chorley, R., et al., May, 376.
- Homeostasis*, Langley, L. L., ed., May, 355.
- The Hope of Progress: A Scientist Looks at Problems in Philosophy, Literature and Science*, Medawar, P. B., July, 500.
- Human Associative Memory*, Anderson, J. R., et al., July, 497.
- Human Information Processing: An Introduction to Psychology*, Lindsay, P., et al., March, 244.
- Human Radiation Biology*, Prasad, K. N., Nov., 738.
- Hybridization of Somatic Cells*, Ep-russi, B. May, 355.
- Immobilized Enzymes*, Zaborsky, O. R., July, 480.
- Immune Response at the Cellular Level*, Zacharia, T., ed., Sept., 605.
- Immunodiffusion*, 2nd ed., Crowle, A. J., May, 363.
- Immunogenicity*, Borek, F., ed., March, 233.
- Information Processing in the Visual Systems of Arthropods*, Wehner, R., ed., March, 238.
- Insect and Mite Nutrition*, Rodriguez, J. G., ed., Jan., 104.
- Integral Transforms in Applied Mathematics*, Miles, J., Jan., 121.
- An Integrated Theory of Finite Element Methods*, Robinson, J., Sept., 613.
- Interferons and Interferon Inducers*, rev. ed., Finter, N. B., ed., July, 489.
- International Safeguards and Nuclear Industry*, Willrich, M., Jan., 100.
- International Symposium: Plant Growth Substances*, Sircar, S. M., ed., May, 358.
- The Interpretation of Geological Phase Diagrams*, Ehlers, E., Sept., 599.
- Introduction to Anisotropic Elasticity Theory of Dislocations*, Steeds, J. W., Sept., 614.
- Introduction to Compact Transformation Groups*, Bredon, G., Jan., 120.
- Introduction to Computer Science*, Gear, C. W., Nov., 746.
- Introduction to Computing*, Dinter, H., Jan., 121.
- Introduction to Ecology*, Colinvax, P. A., Jan., 116.
- Introduction to Glass Science*, Pye, L. D., et al., eds., May, 372.
- Introduction to Graph Theory*, Wilson, R., Jan., 121.
- Introduction to Lie Algebras and Representation Theory*, Humphreys, J., Jan., 120.
- Introduction to Mathematical Logic*, Hermes, H., Jan., 121.
- Introduction to Mathematical Techniques in Pattern Recognition*, Andrews, H. C., March, 244.
- Introduction to Matrix Computation*, Stewart, G. W., March, 245.
- An Introduction to Medical Statistics*, Lancaster, H. O., Sept., 608.
- Introduction to Microbiology*, Anderson, D. A., Sept., 608.
- Introduction to Newton's Principia*, Cohen, I. B., Jan., 124.
- Introduction to Prehistory*, Rouse, I., March, 243.
- An Introduction to Quantitative Ecology*, Poole, R. W., Nov., 741.
- Introduction to Queueing Theory*, Cooper, R., Sept., 611.
- Introduction to the Theory of Entire Functions*, Holland, A. S. B., Sept., 611.
- An Introduction to Transform Theory*, Widder, D. V., Jan., 120.
- Introductory College Mathematics: With Linear Algebra and Finite Mathematics*, Flanders, H., et al., May, 371.
- Invertebrate Pathology: Noncommunicable Diseases*, Sparks, A., March, 234.
- Invariant Imbedding and Its Applications to Ordinary Differential Equations*, Scott, M. R., Nov., 744.
- Invariant Subspaces*, Radjavi, H., et al., Nov., 732.
- I.Q. in the Meritocracy*, Herrnstein, R. J., Sept., 610.
- Island Arcs: Japan and Its Environs*, Sugimura, A., et al., May, 349.
- John Bannister and His Natural History of Virginia, 1678-1692*, Ewan, J., et al., May, 375.
- John Dalton: Critical Assessments of His Life and Science*, Thackray, A., Sept., 617.
- Journal of Raman Spectroscopy*, Vol. 1, No. 1, Bernstein, H. J., et al., eds., July, 481.
- The Jupiter Effect*, Gribben, J., et al., Nov., 721.
- Leaf Protein*, Pirie, N. W., ed., March, 240.
- Lectures on Photomorphogenesis*, Mohr, H., Sept., 604.
- Legends of the Earth: Their Geologic Origins*, Vitaliano, D. B., Nov., 750.
- Leibniz and Dynamics: The Texts of 1692*, Costabel, P., July, 500.
- The Lichens*, Ahmadian, V., et al., eds., Nov., 732.
- Life on Earth*, Wilson, E. O., et al., May, 361.
- Lightning Protection*, Marshall, J. L., Sept., 614.
- Linear Differential Operators with Constant Coefficients*, Palamodov, V. P., March, 245.
- Lipids and Biomembranes of Eukaryotic Microorganisms*, Erwin, J., ed., Nov., 731.
- Liquid Crystal Devices*, Kallard, T., ed., July, 480.
- The Lives of a Cell: Notes of a Biology Watcher*, Thomas, L., Nov., 722.
- Lymphocyte Recognition and Effector Mechanisms*, Lindahl-Kiessling, K., et al., Nov., 734.
- Lysosomes and Storage Diseases*, Hers, H. G., et al., eds., July, 492.
- Lysosomes in Biology and Pathology*, Vol. 3, Dingle, J. T., ed., Sept., 603.
- Macromolecular Physics*, Vol. 1, Wunderlich, B., July, 477.
- The Mammalian Fetus in vitro*, Austin, C. R., ed., May, 352.
- Man's Future Birthright: Essay on Science and Humanity*, Muller, H. J., March, 248.
- Marijuana*, Mechoulam, R., ed., May, 366.
- Mathematical Methods in Chemical Engineering*, Vol. 3: *Process Modeling, Estimation, and Identification*, Seinfeld, J., et al., Sept., 615.
- Mathematical Methods in Theoretical Economics: Topological and Vector Space Foundations of Equilibrium Analysis*, Klein, E., Sept., 612.
- Mathematical Physiology*, Lieberstein, H. M., Nov., 745.
- Mathematical Thought from Ancient to Modern Times*, Kline, M., May, 373.
- Mathematics: Its Spirit and Evolution*, Durbin, J., Jan., 119.
- The Mechanism of Protein Synthesis and Its Regulation*, Bosch, L., ed., March, 234.
- Medicine and Society in America*, 47 vols., Rosenberg, C., ed., March, 225.
- Meditations on Hunting*, Ortega, J., Jan., 99.
- The Mediterranean Sea*, Stanley, D. J., May, 348.

Annual Index, continued

- Men of Physics: Julius Robert Mayer, Prophet of Energy*, Lindsay, R. B., Sept., 619.
- Metamorphism and Metamorphic Belts*, Miyashiro, Akiho, Nov., 728.
- Meteorites and Their Origins*, McCall, G. J. H., May, 348.
- Methods in Immunodiagnosis*, Rose, N., et al., eds., Sept., 606.
- Microautoradiography and Electron Probe Analysis*, Luttag, U., ed., Jan., 113.
- Microbial Permeability*, Reeves, J. P., ed., May, 361.
- The Microbial Production of Amino Acids*, Yamada, K., et al., eds., Jan., 114.
- Microbiology and Human Disease*, Wistreich, G., et al., July, 492.
- Microbiology and Infectious Disease*, Briody, B. A., ed., Nov., 739.
- Minimization Algorithms, Mathematical Theories and Computer Results*, Szego, G., ed., May, 372.
- Mode of Action of Herbicides* Ashton, F., et al., March, 240.
- Models in Ecology*, Maynard Smith, J., Sept., 609.
- Modern Aspects of Inorganic Chemistry*, Emeleus, H. J., et al., Sept., 598.
- Modern Methods in the Study of Microbial Ecology*, Rosswall, T., ed., March, 243.
- Molecular Biology*, Barry, J. M., et al., March, 241.
- Molecular Crystals and Molecules*, Kitaigorodsky, A. I., Nov., 727.
- Molecular Evolution and the Origin of Life*, Fox, S., et al., March, 241.
- Motile Muscle and Cell Models*, Aronnet, N. I., May, 355.
- Multiple Factors in the Causation of Environmentally Induced Disease*, Lee, D., et al., eds., March, 242.
- Muscle Proteins, Muscle Contraction and Cation Transport*, Tonomura, Y., July, 485.
- A Natural Ecology*, Graham, M., Sept., 610.
- The Nature of Mind, The Gifford Lectures 1971-72*, Kenny, A. J. P., et al., July, 501.
- The Nature of the Stratigraphical Record*, Ager, D. V., July, 482.
- Negative Electron Affinity Devices*, Bell, R. L., Sept., 614.
- Neurological Symptoms in Blood Diseases*, d'Eramo, N., et al., July, 492.
- New Developments in Electromyography and Clinical Neurophysiology*, Vols. 1-3, Desmedt, J. E., eds., July, 494.
- New Protein Foods*, Vol. 1A, Altschul, A. M., ed., Nov., 730.
- Nonhuman Primates and Medical Research*, Bourne, G. H., ed., May, 353.
- The Non-Medical Use of Drugs*, Canadian Government Commission of Inquiry, March, 242.
- Nuclear Energy: Physics and Its Social Challenge*, Inglis, D., Jan., 100.
- Nuclear Fission*, Vandenbosch, R., et al., Nov., 724.
- Nuclear Physics*, Bowler, M. G., May, 348.
- Numerical Taxonomy*, Sneath, P., et al., Sept., 602.
- Obedience to Authority*, Milgram, S., July, 476.
- An Objective Theory of Probability*, Gillies, D. A., Sept., 613.
- One Cosmic Instant: Man's Fleeting Supremacy*, Livingston, J., Jan., 99.
- Operating System Principles*, Hansen, P. B., Sept., 612.
- Operating Systems: A Pragmatic Approach*, Katzan, H., Jr., Sept., 612.
- Optical Waveguides*, Kapany, N. S., May, 346.
- Ordinary Differential Equations*, Arnold, V. I., Sept., 613.
- Organic Molecules in Action*, Goodman, F., et al., May, 362.
- Organizational Diagnosis*, Levinson, H., May, 372.
- Origins of Life: Chemistry and Radioastronomy*, Margulis, L., ed., July, 480.
- Orthomolecular Psychiatry: Treatment of Schizophrenia*, Hawkins, D., et al., eds., May, 370.
- Paleomagnetism and Plate Tectonics*, McElhinny, M. W., May, 348.
- The Pacific in Transition*, Brookfield, H., ed., Nov., 743.
- Papers in Economic Prehistory*, Higgs, E., ed., March, 243.
- Particle-Interaction Physics at High Energies*, Lindenbaum, S. J., Nov., 724.
- Pattern Classification and Scene Analysis*, Duda, R., et al., Nov., 745.
- Patterns of Emotion: A New Analysis of Anxiety and Depression*, Izard, C. E., Jan., 118.
- Peary at the North Pole: Fact or Fiction?* Rawlins, D., May, 376.
- The People of America*, Stewart, T. D., Nov., 743.
- Peripheral Devices*, Flores, Ivan, Nov., 745.
- Perspectives in Membrane Biophysics: A Tribute to Kenneth S. Cole*, Agin, D. P., ed., May, 362.
- Pesticides and the Environment*, Deichmann, W. B., ed., July, 496.
- Pharmacology: Drug Actions and Reactions*, Levine, R., Jan., 106.
- Pharmacology of Gastrointestinal Motility and Secretion*, Vols. 1-2, Holton, P., ed., Nov., 737.
- Phloem Translocation*, Canny, M. J., July, 486.
- Physical and Applied Acoustics*, Meyer, E., et al., May, 345.
- Physical Fluid Dynamics*, McCormack, P., et al., March, 246.
- Physicochemical Processes for Water Quality Control*, Weber, W. J., Jr., Sept., 616.
- Physics 50 Years Later*, Brown, S. C., ed., Nov., 721.
- Physics in Perspective*, Vol. 2, Part B, Physics Survey Committee, March, 229.
- Physics in the Twentieth Century*, Weisskopf, V. F., Nov., 724.
- Physics of Atomic Collisions*, Skobel'tsyn, D. V., ed., May, 344.
- Physiology of Plants and Their Cells*, Goss, J., May, 356.
- Phytochemistry, Vol. 3: Inorganic Elements and Special Groups of Chemicals*, Miller, L. P., ed., July, 490.
- The Pituitary Gland*, Holmes, R., et al., Nov., 736.
- Planck's Original Papers in Quantum Physics*, Vol. 1, Kangro, H., ed., May, 374.
- Plant Growth Substances in Agriculture*, Weaver, R. J., Jan., 102.
- Plasma Physics*, Seshadri, S., May, 345.
- Polyamines in Normal and Neoplastic Growth*, Russell, D. H., ed., Nov., 736.
- Prehistory: An Introduction*, Roe, D., March, 243.
- Preparative Organic Chemistry*, Weygand, C., et al., March, 229.
- The Primate Brain*, Noback, C., Jan., 118.
- Primate Locomotion*, Jenkins, F. A., Jr., ed., Nov., 742.
- Principles of Environmental Science*, Watt, K., Jan., 116.
- The Problem of Scientific Realism*, MacKinnon, E., ed., March, 248.
- Progress in Mathematics*, Vol. 12, Gamkrelidze, R. V., ed., Jan., 119.
- Progress in Toxicology*, Vol. 1: Special Topics, Zbinden, G., Sept., 608.
- The Prostaglandins*, Vol. 1, Ramwell, P., ed., Jan., 109.
- Protein Phosphorylation in Control Mechanisms*, Huijing, F., et al., eds., Sept., 604.
- Protein-Protein Interactions*, Jaenicke, R., et al., eds., May, 359.
- Proteins*, Vols. 1-2, Funatsu, M., et al., March, 241.
- Protozoology*, Grell, K. G., Nov., 734.
- Psychiatric Drugs: A Desk Reference*, Honigfeld, G., et al., May, 362.
- Psychology and Visual Aesthetics*, Pickford, R. W., Sept., 610.
- Psychotherapy: Clinical, Research, and Theoretical Issues*, Strupp, H. H., July, 497.
- Public Health and the State: Changing Views in Massachusetts, 1842-1936*, Rosenkrantz, B. G., March, 247.
- Pyrethrum: The Natural Insecticide*, Casida, J. E., ed., Sept., 602.
- Quantum Mechanics: New Approaches to Selected Topics*, Lipkin, H. J., July, 481.
- Quantum Theory of Molecules and Solids*, Vol. 4, Slater, J. C., Nov., 725.
- Quasiconformal Mappings in the Plane*, 2nd ed., Lehto, O., et al., Sept., 613.
- Radiative Transfer and Interactions with Conduction and Convection*, Ozisik, M. N., Nov., 748.
- Radioisotope Laboratory Techniques*, 3rd ed., Faires, R., et al., Sept., 596.
- Random Processes*, Ephremides, A., et al., eds., Nov., 745.
- A Random Walk in Science: An Anthology*, Mendoza, E., ed., Sept., 595.
- Rattlesnakes*, 2nd ed., Klauber, L., May, 349.
- Realizability Theory for Continuous*

- Linear Systems*, Zemanian, A. H., Jan., 120.
- Recent Advances in Plant Nutrition*, Vols. 1-2, Samish, R., ed., March, 238.
- Receptors for Reproductive Hormones*, O'Malley, B., et al., May, 352.
- Regenerative Phenomena*, Kingham, J. F. C., July, 498.
- Regulating New Drugs*, Landau, R. L., ed., Nov., 736.
- Regulation of Amino Acid Metabolism in Mammals*, Schepartz, B., Sept., 604.
- Research Methods in Marine Biology*, Schliepper, C., ed., Jan., 102.
- Respiration in the Invertebrates*, Mill, P. J., May, 356.
- Respiratory Distress Syndrome*, Villee, C., et al., eds., Sept., 605.
- Responses of Fish to Environmental Changes*, Chavin, W., ed., Sept., 609.
- The Ribonucleic Acids*, Stewart, P. R., et al., eds., July, 489.
- Riccati Differential Equations*, Reid, W., March, 245.
- The Role of Cyclic Nucleotides in Carcinogenesis*, Schultz, J., et al., eds., Jan., 112.
- The Role of Water in Development*, Wiener, A., Jan., 122.
- Room Acoustics*, Kuttruff, H., Nov., 727.
- Rutherford—Recollections of the Cambridge Days*, Oliphant, M., Jan., 124.
- Sand and Sandstone*, Pettijohn, F. J., et al., Sept., 600.
- Schistosomiasis: The Evolution of a Medical Literature*, Selected Abstracts and Citations, 1852-1972, Warren, K. S., Sept., 605.
- Schooling in the Ecology of Fish*, Radakov, D. V., Nov., 732.
- Science, the Brain, and Our Future*, Klemm, W. R., Jan., 114.
- Science and the Evolution of Public Policy*, Shannon, J., ed., March, 225.
- Science, Medicine and Society in the Renaissance: Essays to Honor Walter Pagel*, Vols. 1 & 2, Debus, A. G., ed., Sept., 618.
- Science and Politics*, Salomon, J.-J., Nov., 749.
- Science and Society in the Sixteenth and Seventeenth Centuries*, Smith, A. G. R., Jan., 122.
- Science and Technology in Economic Growth*, Williams, B. R., ed., Jan., 125.
- Sea Urchin Development*, Stearns, L. W., Nov., 732.
- Seaweed Symposium*, Nisizawa, K., ed., May, 358.
- Shallow-Water Gammaridean Amphipoda of New England*, Bousfield, E. L., March, 235.
- Smoking Behavior*, Dunn, W. L., ed., May, 368.
- Social Encounters*, Argyle, M., ed., May, 368.
- Social Psychology and Social Relevance*, Elms, A., Jan., 118.
- The Sociology of Science: Theoretical and Empirical Investigations*, Merton, R. K., Sept., 618.
- South Asian Archaeology*, Hammond, N., ed., Nov., 742.
- The Special Theory of Relativity*, Muirhead, H., Sept., 598.
- Speech and Cortical Functioning*, Gilbert, J. H., ed., Sept., 605.
- Spindle Dynamics and Chromosome Movements*, Bajer, A., et al., May, 364.
- Stability and Complexity in Model Ecosystems*, May, R. M., Sept., 602.
- Stable Isotope Geochemistry*, Hoefs, J., July, 482.
- Statistical Thermodynamics*, McQuarrie, D. A., Sept., 598.
- Stereochemistry and Bonding in Inorganic Chemistry*, Fergusson, J. E., Nov., 727.
- Stereochemistry of Carbohydrates*, Stoddart, J., March, 229.
- Stirling-Cycle Machines*, Walker, G., May, 372.
- Stochastic Processes and the Wiener Integral*, Yeh, J., May, 371.
- Streptococci and Streptococcal Diseases*, Wannamaker, L., et al., eds., March, 234.
- Strongly Interacting Particles*, Setti, R. L., et al., July, 478.
- Strong Rigidity of Locally Symmetric Spaces*, Mostow, G. D., Nov., 744.
- Structure and Function of Biological Membranes*, Rothfield, L., ed., Jan., 113.
- The Structure and Function of Muscle*, Vol. 1, Bourne, G. H., ed., Jan., 114.
- The Structure and Function of Muscle*, Vol. 3, Bourne, G. H., ed., Sept., 606.
- The Structure and Function of Muscle*, Vol. 4, Bourne, G. H., Nov., 736.
- The Structure and Function of Nervous Tissue*, Vol. 4, Bourne, G. H., ed., Jan., 112.
- Structure and Function of Nervous Tissue*, Vol. 6: Structure 4 and Physiology 4, Bourne, G. H., ed., Sept., 606.
- The Study of Enzyme Mechanisms*, Zeffren, E., et al., Nov., 734.
- Superconducting Magnet Systems*, Brechna, H., Nov., 727.
- The Surveillant Science: Remote Sensing of the Environment*, Holz, R. K., ed., May, 373.
- Symmetric Bilinear Forms*, Milnor, J., et al., July, 497.
- Symmetry and Its Applications in Science*, Boardman, A., et al., May, 348.
- Symmetry Groups and Their Applications*, Miller, W., Jr., May, 370.
- Symmetry in Chemical Bonding and Structure*, Hatfield, W. E., et al., Nov., 727.
- Systemic Fungicides*, Marsh, R. W., ed., July, 489.
- Television and Antisocial Behavior*, Milgram, S., et al., Nov., 742.
- The Tender Carnivore and the Sacred Game*, Shepard, P., Jan., 99.
- Terpenoids*, Runeckles, V., et al., eds., May, 358.
- Theoretical Physics*, Vol. 4, Part 6: Quantum Statistics and Physical Kinetics, Levich, B. G., July, 478.
- Theory and Application of a Bottom-Up Syntex-Directed Translator*, Abramson, H., Jan., 122.
- Theory of Unimolecular Reactions*, Frost, W., Sept., 596.
- Thermionic Energy Conversion*, Vol. 1, Hatsopoulos, G. N., et al., Nov., 747.
- Thermocouple Temperature Measurement*, Kinzie, P. A., May, 372.
- Thymic Hormones*, Luckey, T. D., ed., May, 364.
- Timber!*, Duerr, W. A., ed., Nov., 731.
- Topological Embeddings*, Rushing, T. B., Jan., 121.
- The Total Synthesis of Natural Products*, Vols. 1 & 2, ApSimon, J., ed., Sept., 599.
- Toward Global Equilibrium: Collected Papers*, Meadows, D. L., et al., July, 495.
- Toward a Political Sociology of Science*, Blume, Stuart, Nov., 749.
- Transplantation Antigens*, Kahan, B. D., et al., eds., March, 232.
- Transport Phenomena and Living Systems*, Lightfoot, E. N., Nov., 740.
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